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A STRUCTURAL WEIGHT ESTIMATION PROGRAM (SWEEP) FOR AIRCRAFT. VOLUME IX - USER'S MANUAL. APPENDIX A

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Rockwell International Corporation

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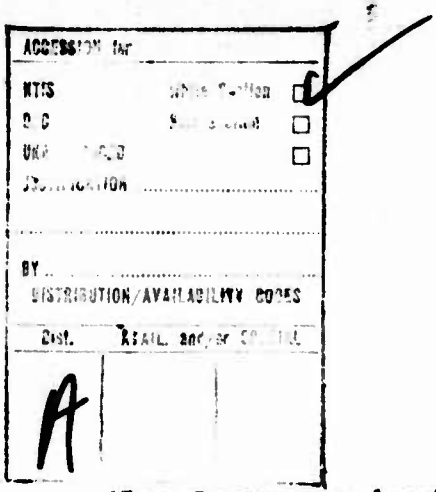

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Deputy for Development Planning

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Three computer programs were written with the objective of predicting the structural weight of aircraft through analytical methods. The first program, the structural weight estimation program (SWEEP), is a completely integrated program including routines for airloads, loads spectra, skin temperatures, material properties, flutter stiffness requirements, fatigue life, structural sizing, and for weight estimation of each of the major aircraft structural components. The program produces first-order weight estimates

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and indicates trends when parameters are varied. Fighters, bombers, and cargo aircraft can be analyzed by the program. The program operates within 100,000 octal units on the Control Data Corporation 6600 computer. Two stand-alone programs operating within 100,000 octal units were also developed to provide optional data sources for SWEEP. These include (1) the flexible airloads program to assess the effects of flexibility on lifting surface airloads, and (2) the flutter optimization program to optimize the stiffness distribution required for lifting surface flutter prevention.

The final report is composed of 11 volumes. This volume (Volume IX) contains the instructions and input descriptions for use of the integrated SWEEP program.

APPENDIX A

SAMPLE TEST CASE
C-141A TRANSPORT

INTRODUCTION

This appendix contains the input data and output results for a sample problem run on SWEEP, the C-141A transport demonstration aircraft, metallic design.

Card image listings of sample case data blocks can be found herein. Definitions of each data items can be found in Sections II through VII of Volume IX, "Users' Manual." The values used were based primarily on information derived from weight reports and maintenance manuals for the C-141A transport.

The final output for the sample case is also presented in this appendix. Intermediate results, printed under control of control card 1, are presented in sequence of output for the problem. A complete listing of SWEEP data bank data is included. Analysis summaries are shown in complete form. Array dumps and other large output blocks have been altered to show only the initial and final portions of the output. The general intent here is to show the type of output that can be expected from control card 1 indicators.

Each printed block is identified by an "IP (XX)" heading and the printing subroutine. The "XX" denotes the control card 1 column that orders the output.

Output samples for the horizontal and vertical tails are not included, since outputs for these surfaces are similar to that for the wing. The wing problem is for a metallic design, but sample outputs for an advanced composite analysis are also included. These outputs can be identified from the output tables and controls summary list. All overlay (18,0) ouputs are advanced compo ite samples.

SAMPLE TEST CASE INPUT DATA
C-141A TRANSPORT

GENERAL

701	31.0	0.0	0.0	0.0	1.0	GDIC1411
706	0.0	0.0	1.0	0.0		GDIC1412
721	318000.0		316100.0	931.65	257500.0	GDDC1411
726		30000.0	12000.0			GDDC1412
731	2.5	2.0	-1.0	2.0	1.0	C141 GD
736	-0.5	147.0	103.0	6.0	10.0	GDDC1414
741	28.0	12.0	61.7	41.5	920.0	GDDC1415
746	991.77	354.75	96.0	105.0		GDDC1416
751	0.574	0.680	0.814	0.85	0.85	DATM1411
756	0.0	10000.0	20000.0	22500.0	50000.0	DATM1412
761	0.026	0.026	0.026	0.02	0.02	DATM1413
766	0.0	0.0	0.0	0.0	0.0	DATM1414
771	0.0	0.0	0.0	0.0	0.0	DATM1415
776	0.0	0.0	0.0	0.0	0.0	DATM1416
781	0.0	0.0	0.0	0.	0.0	DATM1417
786	0.0	0.0	0.0	8000.0		DATM1418
791	0.0	0.0	0.0	0.0	0.0	GDWT1411
796	0.0	3714.0	0.0	0.0	18759.0	GDWT1412
801	0.0	0.0	0.0	3577.0	144.0	GDWT1413
806	212.0	1380.0	236.0	320.0	554.0	GDWT1414
811	1122.0	1489.0	2650.0	2347.0	0.0	GDWT1415

816	3320.0	2648.0	0.0	95.0	113.0	GDWT1416
821	860.0	2164.0	416.0	0.0	236.0	GDWT1417
826	0.0	0.0	0.0	0.0	0.0	GDWT1418
831	0.0	0.0	0.0	0.0	0.0	GDWT1419
836	0.0	1121.8	0.0	0.0	774.1	GDWT1420
841	0.0	0.0	0.0	845.67	803.9	GDWT1421
846	840.9	953.4	666.2	768.3	844.7	GDWT1422
851	545.0	881.9	657.5	592.4	0.0	GDWT1423
856	596.8	809.9	0.0	1228.0	300.0	GDWT1424
861	351.3	1001.9	753.61	0.0	852.97	GDWT1425
866	0.0	0.0	0.0	0.0	0.0	GDWT1426
871	70000.0	0.0	0.0	67640.0	49040.0	GDWT1427
876	0.0	0.0	0.0	0.0	0.0	GDWT1428
881	887.0	0.0	0.0	858.0	1047.34	GDWT1429
886	0.0	0.0	0.0	0.0	0.0	GDWT1430
891	452.0	1292.0	0.0	0.0	78.0	GDWT1431
896	325.0	415.0	948.0	0.0	0.0	GDWT1432
901	0.0	0.0	0.0	0.0	0.0	GDWT1433
906	0.0	0.0				GDWT1434
911	1.0	0.0	0.0	1.0	1.0	GDWT1435
916	0.0	0.0	0.0	0.0	0.0	GDWT1436
921	1.0	0.0	0.0	0.971910	1.0	GDWT1437

926	0.0	0.0	0.0	0.0	0.0	GDWT1438
931	1.0	0.0	0.0	0.4152868	0.5727977	GDWT1439
936	0.0	0.0	0.0	0.0	0.0	GDWT1440
941	320.0	403.0	1718.0	4.0	0.0	GDWT1441
951	3002.83	8.519750	0.417466	28.109	0.0	GDWC1411
956		77.7	648.76	0.0	0.0	GDWC1412
961	284.0	0.163274	0.612467	0.0	0.0	GDWC1413
966	0.3775	0.0	0.0	0.0	0.0	GDWC1414
971	0.0	0.0	0.0	0.0	0.0	GDWC1415
976	0.0	0.0	0.0	0.0		GDWC1416
981	0.0	0.0	0.0	0.0	0.0	GDWC1417
986	0.0	92.0	641.0	0.323	50.0	GDWC1418
1001	483.0	5.248	0.369887	25.0	0.25	GDHC1411
1006	0.0	0.0	1718.17	0.0	0.0	GDHC1412
1011	558.66	0.105	1.0			GDHC1413
1016	0.40		0.0	0.0	0.0	GDHC1414
1021	0.0	0.0	0.0	0.0	0.0	GDHC1415
1026	0.0					GDHC1416
1041	416.0	1.241	0.608934	35.0	0.25	GDVC1411
1046	0.0	0.0	1544.8	0.0	0.0	GDVC1412
1051	286.0	0.13	1.0			GDVC1413
1056	0.40		0.0	0.0	0.0	GDVC1414

1061	0.0	0.0	0.0	0.0	0.0	GOVC1415
1066	0.0	0.0	0.0	0.0	0.0	GOVC1416
1081	1.0	19.0				GORC1411
1086	230.4	280.0	350.0	440.0	1200.0	GORC1412
1091	1300.0	1400.0	1520.0	1680.0	1817.9	GORC1413
1096	200.0	200.0	200.0	200.0	200.0	GORC1414
1101	225.0	240.0	252.0	262.0	270.0	GORC1415
1106	0.0	101.2	150.2	17[illegible].0	170.0	GORC1416
1111	168.0	158.5	133.7	75.7	0.0	GORC1417
1116	0.0	101.2	150.2	170.0	170.0	GORC1418
1121	168.0	158.5	133.7	75.7	0.0	GORC1419
1126	0.0	318.0	472.0	534.0	534.0	GORC1420
1131	528.0	498.0	420.0	238.0	0.0	GORC1421
1136	272.0	349.0	353.0	452.0	600.0	GORC1422
1141	732.0	736.0	846.0	956.0	960.0	GORC1423
1146	996.0	1000.0	1142.0	1292.0	1398.0	GORC1424
1151	1639.0	1643.0	1726.0	1730.0		GORC1425
1161	4.0	1.2	2.0	1648.0	4.0	DATS1411
1166	6.0	4.0	21000.0	4690.0	187.0	DATS1412
1171	45.0	88.2	648.0	285.0	192.71	DATS1413
1176	737.0	460.0	185.52		70.0	DATS1414
1181	0.0	171.0	40.0	171.0	40.0	DATS1415

1186	0.10	0.0	0.0	0.0	0.0	DATS1416
1201	1.0	3.0				DATD1411
1211	0.0	6.0	12.0			DATD1412
1221	0.0	0.0	0.0			DATD1413
1231	0.0	0.0	0.0			DATD1414
1241	47.0	50.0	52.5			DATD1415
1251	47.0	50.0	52.5			DATD1416
1261	147.7	157.1	165.0			DATD1417
1271	0.0					DATR1411
1291	2.0	10.0				DATN1411
1296				66.0	66.0	DATN1412
1301	0.0	10.0	20.0	40.0	60.0	DATN1413
1306	120.0	140.0	160.0	180.0	199.218	DATN1414
1311	0.0	0.0	0.0	0.0	0.0	DATN1415
1316	0.0	0.0	0.0	0.0	0.0	DATN1416
1321	0.0	0.0	0.0	0.0	0.0	DATN1417
1326	0.0	0.0	0.0	0.0	0.0	DATN1418
1331	48.0	63.0	66.0	66.0	66.0	DATN1419
1336	65.5	65.0	63.5	60.0	54.0	DATN1420
1341	48.0	63.0	66.0	66.0	66.0	DATN1421
1346	65.5	65.0	63.5	60.0	54.0	DATN1422
1351	1.0	1.0	1.0	1.0	1.0	DATN1423
1356	1.0	1.0	1.0	1.0	1.0	DATN1424

```
FATIGUE                    CONSTANT DATA FOR FATIGUE.                              FATIG000
      1 1.0          2.0          3.0          4.0          5.0                   FATIG001
      6 6.0          7.0          8.0          9.0          10.0                  FATIG002
     11 11.0         12.0         20.0         1000.0       3.1415927             FATIG003
     16 0.01745329   144.0        24.0         0.5          1.5                   FATIG004
     21 0.33333333   0.95         0.25         0.0                                FATIG005
     51 1.12         0.893        0.0792       0.179        3.31                  FATIG006
     56 0.25         81.4         0.75         100000000.   1000000.              FATIG007
     61 0.015        0.001        0.01         -0.1666667                         FATIG008
     78 0.5          1000000000.  1.0          0.05                               FATIG009
    108 0.0                                                                       
    113 4.0          4.0          2.5          2.5          4.0                   FATIG010
    118 3.0                                                                       FATIG011
   1200 1.0          8.6                                                         
   1301 0.0          0.0          0.0                                           FATIG013
-  1401 20000.0
```

LG

46	0.0	257500.0	1900.0	932.7	926.6	LG000001
51	141.6	991.77	354.75	210.0	240000.0	LG000002
56	0.33	165000.0	30000000.0	0.28	0.0	LG000003
61	0.0	1.0	1.0	1.0	1.0	LG000004
66	1.0	1.0	4.0	0.0	4.0	LG000005
71	0.0	61.7	28.0	0.0	0.0	LG000006
76	4.0	0.0	0.0	44.0	16.0	LG000007
81	41.5	12.0	0.0	0.0	2.0	LG000008
86	0.0	36.0	11.0	6.0	10.0	LG000009
91	236.0	209.0	0.0	0.0	0.0	LG000010
96	0.0	0.0	1.0	0.0	0.0	LG000011
101	0.0	0.0	0.0	0.0	0.0	LG000012
106	0.0					LG000013

ATS

281	4.0	1.2	2.0	1648.0	4.0	DATS1411
286	6.0	4.0	21000.0	4690.0	187.0	DATS1412
291	45.0	88.2	628.4	285.0	192.71	DATS1413
296	719.4	460.0	185.52		70.0	DATS1414
301	0.0	471.0	40.0	171.0	40.0	DATS1415
306	0.10	0.0	0.0	0.0	0.0	DATS1416
311	4.0	4.0	4.0		4.0	DATS1417
316	0.0	2.5				DATS1418
321	3.0	1.0				DATD1410
324	4.0	6.0	20.0	1.0		DATD1411
331	0.0	6.0	12.0			DATD1412
341	0.0	0.0	0.0			DATD1413
351	0.0	0.0	0.0			DATD1414
361	47.0	50.0	52.5			DATD1415
371	47.0	50.0	52.5			DATD1416
381	147.7	157.1	165.0			DATD1417
601	0.574	0.680	0.814	0.85	0.85	DATM1411
606	0.0	10000.0	20000.0	22500.0	50000.0	DATM1412
611	0.026	0.026	0.026	0.02	0.02	DATM1413
401	0.0					DATR1411
521	10.0	2.0	0.0			DATN1411

526	7.0	4.0	0.0	66.0	66.0	DATN1412
531	0.0	10.0	20.0	40.0	60.0	DATN1413
536	120.0	140.0	160.0	180.0	199.219	DATN1414
541	0.0	0.0	0.0	0.0	0.0	DATN1415
546	0.0	0.0	0.0	0.0	0.0	DATN1416
551	0.0	0.0	0.0	0.0	0.0	DATN1417
556	0.0	0.0	0.0	0.0	0.0	DATN1418
561	48.0	63.0	66.0	66.0	66.0	DATN1419
566	65.5	65.0	63.5	60.0	54.0	DATN1420
571	48.0	63.0	66.0	66.0	66.0	DATN1421
576	65.5	65.0	63.5	60.0	54.0	DATN1422
581	1.0	1.0	1.0	1.0	1.0	DATN1423
586	1.0	1.0	1.0	1.0	1.0	DATN1424

HORIZONTAL

80 0.0	316100.0	0.0	1.0		C141A001
85 2.5	1.0	530.0	316100.0		C141A001
89 116940.0					
91 116940.0		1.0			
125 0.15	0.65				C141H002
144 0.0048528					C141H005
136 .650			1.0	0.0	
138 0.25					C141H004
155			0.0	0.0	
161 0.0	0.0	0.0	0.0	0.0	
166 0.0					
201			1.0	1.0	
235 483.0	5.2487	0.369883	0.0	0.0	C141H008
240 483.0	5.2487	25.0	0.105009	0.369883	C141H009
245 1.00	0.0				C141H010
250 1.0	1.0	1.15	530.0	1.0	C141A011
251	.9184	0.0	1.0		
255 0.0	0.0	0.40	6.0	80.0	C141A012
289-1.0					C141H014
336				483.0	
341 5.2487	.369883	0.0	.105	1.0	

346	1.0	1.0	1.0	1.0	1.0	C141A016
351	1.0	1.0	1.0	1.0	1.0	C141A017
356	1.0					C141A018
361	0.0					C141A019
365	0.45	0.7	2.0	1.0	3.0	C141A020
370	0.05	0.04	0.04	0.064	0.064	C141A021
375	22.0	22.0	1.0	3.0	0.5	C141A022
380	4.25	4.25	1.0	3.0	0.0	C141A023
390	0.0	0.65	0.5	1.0	0.05	C141A024
398	1.0					C141A025
450	0.0	0.0	0.0	0.0	0.0	C141A027
455	0.80	0.40				C141A028
472	1.0			1.0		C141A029
477	1.0		1.0	0.0	1.0	C141H030
482	1.0	1.0	1.0	1.0	1.0	C141A031
487	1.0	1.0	1.0	1.0	1.0	C141A032
492	1.0	1.0	1.0	1.0	1.0	C141A033
497	1.0	1.0	1.0	1.0	1.0	C141A034
502	1.0	1.0	1.0	1.0		C141A035
520	1.0					
575	4.0	7.0	0.0			
686	0.0					C141A045

841		1.05	1.05	1.05	1.05
846	1.05	1.05	1.05	1.05	1.05
851	1.05	1.05	1.20	1.20	1.20
856	1.20	1.20	1.20	1.20	1.20
861	1.20	1.20	1.20		
864	0.0				
1086			1.0	1.0	1.0
1091	1.0	1.0	1.0	1.0	1.0
1096	1.0	1.0			
1686					5.0
1691	2.0	10.0	301.0	0.66	0.66
1701				0.68	0.68
1706	0.68	0.68		1.0	
1706				1.175	
1781					1.0
1818			1.0	445.0	10.0
1823	300.0	.65	.65	0.0	.40
1828	0.0				
2001					

```
VERTICAL                C141     OCT. 72
          80 0.0        316100.0  0.0       1.0                    C141A001
          81                                                 1.0
          85 0.001      0.0001    530.0     316100.0               C141V001
          86 1.0                            116940.0
          91 116940.0               1.0
         125 0.15       0.65                                       C141V003
         136 .650                          1.0        0.0
         138 0.25                                                  C141V004
         144 0.0042644                                             C141V005
         156                               0.0        0.0
         161 0.0        0.0       0.0     0.0        0.0
         166 0.0
         201                                          1.0
         235 832.0      2.48172   0.608912  0.0      0.0          C141V008
         240 832.0      2.48172   35.0      0.129984 0.608912     C141V009
         245 1.00       0.0                                       C141V010
         250 1.0        1.0       1.15      530.0    1.0          C141A011
         251            .9184     0.0       1.0
         255 0.0        0.0       0.40      6.0      80.0         C141A013
         289 1.0                                                  C141V014
         336 .600       808.0     3900000.0 1.0      832.0
```

341	2.48172	.608912	0.0	.129984	1.0	
346	1.0	1.0	1.0	1.0	1.0	C141A016
351	1.0	1.0	1.0	1.0	1.0	C141A017
356	1.0					C141A018
356		1.0				
361	0.0					C141A019
365	0.45	0.7	2.0	1.0	3.0	C141A020
370	0.05	0.04	0.04	0.064	0.064	C141A021
375	22.0	22.0	1.0	3.0	0.5	C141A022
380	3.0	3.0	1.0	3.0	0.0	C141A023
390	0.0	0.65	0.5	1.0	0.05	C141A024
391		1.0				
398	1.0					C141A025
450	0.0	0.0	0.0	0.0	0.0	C141A027
455	0.80	0.40				C141A028
472	1.0			1.0		C141A029
477	1.0		1.0	0.0	1.0	C141V030
482	1.0	1.0	1.0	1.0	1.0	C141A031
487	1.0	1.0	1.0	1.0	1.0	C141A032
492	1.0	1.0	1.0	1.0	1.0	C141A033
497	1.0	1.0	1.0	1.0	1.0	C141A034
502	1.0	1.0	1.0	1.0		C141A035

520	1.0					
575	0.0	0.0	8.0			
660	1.0	0.0	0.0	0.00	0.0	V
686	0.0					C1414045
841		1.05	1.05	1.05	1.05	
846	1.05	1.05	1.05	1.05	1.05	
851	1.05	1.05	1.20	1.20	1.20	
856	1.20	1.20	1.20	1.20	1.20	
861	1.20	1.20	1.20			
864	0.0					
1086			1.0	1.0	1.0	
1091	1.0	1.0	1.0	1.0	1.0	
1096	1.0	1.0				
1706					6.0	
1711	2.0	2.0	242.0	.69	.66	
1721				.70	.67	
1726	.70	.67		1.0		
1726				0.60		
1786					1.0	
1818			1.0	402.0	1.0	
1823	242.0	.65	.65		.40	
2001						

WING

81	316100.0				2.5
86	1.0	530.0	316100.0	116940.0	
91	116940.0		1.0		
121					.12
126	.635	.3775	0.0	1.0	
131					.12
136	.635	.3775	.25	950.0	0.0
141	0.0	1.0		.05	
156				0.0	0.0
161	0.0	0.0	0.0	0.0	0.0
166	0.0	0.0	0.0	0.0	0.0
171	0.0	0.0	0.0	0.0	0.0
176	648.76	0.0	0.0		
201					1.0
206	78.0	285.0	.0372	1.0	34160.0
211	.012		415.0	948.0	.0281
216	1.0	24310.0	.012		
231					3002.5
236	8.52	.4175	155.4		3002.5
241	8.52	25.0	.1633	.4175	.61237
246	155.4	0.0	0.0		

```
251 1.0          .9184          0.0          1.0
256                             6.0          80.0
271 1.0          0.0            0.0          0.0          0.0
276 0.0          0.0            0.0          0.0          1.0
286                                           0.0          .80
291 0.0          10500000.0     3900000.0                 316100.0
296 932.0        26.00  F.09    34.0   F.09  92000.0      366.0
301 932.0        13.0   F.08    33.0   F.09  .825         0.0
306              10500000.0     3900000.0    1.15
311              1.0            .9           1.0          .975
316 .001
336                                                       3002.5
341 8.52         .4175          155.4        .1633        .61237
346 0.0
361 0.0                                                   .50
366 .75          2.0            1.0          3.0          .050
371 .040         .040           .064         .064         22.0
376 22.0         1.0            3.0          .50          4.25
381 4.25         1.0            3.0          0.0
386 0.0
391 .65          .40            1.0
396                             .850
```

461	0.0				
471	2.0	2.0	2.0	2.0	1.0
476	1.0	1.0	1.0	1.0	224.0
500	0.500				
516					1.0
646					1.0
651		1.25		1.25	
656					1.50
661					4.0
841		1.05	1.05	1.05	1.05
846	1.05	1.05	1.05	1.05	1.05
851	1.05	1.05	1.20	1.20	1.20
856	1.20	1.20	1.20	1.20	1.20
861	1.20	1.20	1.20		
1086			1.0	1.0	1.0
1091	1.0	1.0	1.0	1.0	1.0
1096	1.0	1.0			
1206	1.0				
1296	1.0				
1576					1.0
1581	105.0	390.0	300.0	.785	330.0
1586	.910	0.0	1.361	0.0	

1591					3.0
1596	420.0	640.0	.832	.790	.920
1601	.895	0.0	1.475	0.0	
1606					1.0
1611	1.0	95.0	400.0	.935	.684
1621				303.0	.770
1626	.935	.684	0.0	1.0	1.0
1631	1.0	410.0	650.0	.760	.705
1641				.829	.795
1646	.760	.705	0.0	1.0	
1666					4.0
1671	1.0	665.0	958.0	.792	.715
1681				.802	.725
1686	.802	.725	0.0	1.0	
1818			1.0	860.0	78.0
1823	950.0	.700	.650	660.0	.400
1828	.25				
1851					7808.0
1856	285.0	-.182	83.0	1.0	0.0
1861	0.0	0.0	196.0	70.0	70.0
1866	1.0	7808.0	460.0	-.222	81.0
1871	1.0	0.0	0.0	0.0	196.0

1876	70.0	70.0	1.0		
1904	1.0				
1916	1.0				
2006			0.0	405.0	
2016				0.0	79.0
2021	0.0				
2031	0.0	405.0	959.69		
2041		.1308	.1105	.1000	
280	0.0				
2055					

FUSELAGE

241	32.0	19.0	1.0	2.0	0.0	CINDC141
246	4.0	5.0	5.0	4.0	3.0	CINDC141
251	0.0	4.0	0.0	0.0	6.0	CINDC141
256	6.0	1020.0				CINDC141
271	1.220	1.188	1.0	1.258	1.100	CINDC141
276	1.100					CINDC141
291	231.0	280.0	350.0	440.0	1200.0	XI C141
296	1300.0	1400.0	1520.0	1680.0	1819.0	XI C141
301	200.0	200.0	200.0	200.0	200.0	ZI C141
306	225.0	240.0	252.0	262.0	270.0	ZI C141
311	0.0	101.2	150.2	170.0	170.0	DI C141
316	168.0	158.5	133.7	75.7	0.0	DI C141
321	0.0	101.2	150.2	170.0	170.0	WI C141
326	168.0	158.5	133.7	75.7	0.0	WI C141
331	0.0	318.0	472.0	534.0	534.0	PI C141
336	528.0	498.0	420.0	238.0	0.0	PI C141
361	272.0	349.0	353.0	452.0	600.0	XO C141
366	732.0	736.0	846.0	956.0	960.0	XO C141
371	996.0	1000.0	1142.0	1292.0	1398.0	XO C141
376	1639.0	1643.0	1726.0	1730.0		XO C141
441	0.500	0.500	0.500	0.500	0.0	DKHTC141

446	0.82353	0.82353	0.82353	0.0	DKHTC141
451 0.0	0.0	0.0	0.684	0.595	DKHTC141
456 0.446	0.446	0.360	0.360		DKHTC141
461 0.0	0.0	0.0	0.0	0.0	CTOUC141
466 0.0	-1.0	1.0	1.0	0.0	CTOUC141
471 0.0	0.0	0.0	0.0	0.0	CTOUC141
476 0.0	0.0	0.0	0.0		CTOUC141
481-56.0	56.0	0.0	0.0	0.0	CTOLC141
486 0.0	0.0	0.0	0.0	0.0	CTOLC141
491 0.0	0.0	0.0	-1.0	1.0	CTOLC141
496 1.0	1.0	1.0	1.0		CTOLC141
561 1.0	0.0	0.0	1.0	0.0	RLRDC141
571 0.0	0.0	0.0	0.0	1.0	RLRDC141
601-8.6	-8.6	-8.6	-8.6	-8.6	PRFSC141
606-8.6	8.6	-8.6	-8.6	-8.6	PRESC141
611-8.6	-8.6	-8.6	-8.6	-8.6	PRFSC141
616 0.0	0.0	0.0	0.0		PRFSC141
821 0.0	0.0	1.0	1.0	1.0	SCSTC141
826 1.0	1.0	1.0	0.0	0.0	SCSTC141
831 0.0	0.0	1.0	1.0	1.0	
836 0.0	0.0	0.0	1.0	0.0	
841 1.0	0.0	0.0	0.0	1.0	SCSTC141

846	1.0	1.0	1.0	1.0	1.0	SCSTC141
851	0.0	0.0	0.0	0.0	0.0	SCSTC141
856	1.0	0.0	0.0	1.0	1.0	SCSTC141
861	0.0	1.0	1.0	0.0	0.0	SCSTC141
871	0.0	0.0	309.4	309.4	1020.0	SCSTC141
876	385.3	442.8	219.0	0.0	0.0	SCSTC141
881	0.0	0.0	968.6	353.8	1560.8	SCSTC141
886	0.0	0.0	0.0	1356.8	0.0	SCSTC141
891	1411.0	0.0	0.0	0.0	910.3	SCSTC141
896	842.5	1218.0	1200.0	468.0	850.0	SCSTC141
901	0.0	0.0	0.0	0.0	0.0	SCSTC141
906	971.8	0.0	0.0	872.0	872.0	SCSTC141
911	0.0	882.4	872.0	0.0	0.0	SCSTC141
921	0.0	0.0	29.0	30.0	3.0	SCDTC141
926	51.0	29.0	40.0	2.0	0.0	SCDTC141
931	6.0	6.0	4.0	0.0	183.0	SCDTC141
936	0.0	0.0	0.0	0.0	0.0	SCDTC141
941	0.0	0.0	163.0	32.9	385.3	SCDTC141
946	0.0	0.0	0.0	0.0	108.5	SCDTC141
951	127.0	0.0	65.7	77.5	122.0	SCDTC141
956	0.0	0.0	0.0	0.0	6.050	SCDTC141
961	4.0	6.167	3.0	21.2	2.0	SCDTC141

966	12.2	1.0	0.0	0.0	0.0	SCNTC141
971	0.0	0.0	700.0	0.0	0.0	SCNTC141
976	841.0	2.0	712.5	0.0	0.0	SCNTC141
1001	648.76	734.0	958.0	0.0	61.0	S21 C141
1006	255.0	0.0	0.0	0.0	0.0	S21 C141
1011	0.0	0.0	1641.0	1728.0	0.0	S21 C141
1016	297.0	1.0	0.0	0.0	0.0	S21 C141
1021	0.0	0.0	0.0	0.0	0.0	S21 C141
1026	354.75	351.0	0.0	28.0	28.0	S21 C141
1031	130.0	991.77	998.0	1058.0	105.0	S21 C141
1036	64.5	144.75	96.0			S21 C141
1041	4.0	349.8	0.0	0.0	0.0	S21 C141
1046	0.0	378.0	0.0	273.1	0.13	S21 C141
2000						

SAMPLE TEST CASE FINAL OUTPUT
C-141A TRANSPORT

FINAL OUTPUT MODULE

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for final output module
-	(13,0)	Output	-	Initial weight-empty balance summary
-	(13,0)	Output	-	Initial gross weight balance summary
-	(13,0)	Output	-	Final weight-empty balance summary
-	(13,0)	Output	-	Group weight statement
-	(13,0)	Output	-	Final gross weight balance summary
-	(13,0)	Output	-	Air vehicle dimensional and structural data

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973 ** OLAY00 - IP(40) *
C 141 TEST CASE

**** FINAL OUTPUT (OVERLAY 13) ****

INITIAL WEIGHT AND BALANCE DATA

	WEIGHT	HORIZ. ARM
WEIGHT EMPTY	127643.87	953.07
WING	31596.64	981.63
HORIZONTAL	3666.65	1846.85
VERTICAL	2171.05	1749.93
BODY	31127.77	1054.76
MAIN GEAR	8175.46	922.42
NOSE GEAR	851.99	356.38
SURFACE CONTROLS	3714.00	1121.80
ENGINE SECTION	6141.39	795.64
OTHER STRUCTURE	0.0	0.0
ENGINE	18759.00	774.10
ACCESSORY GEAR BOXES	0.0	0.0
AIR INDUCTION SYSTEM	832.92	698.99
AIS ACTUATION AND CONTROLS	0.0	0.0
EXHAUST SYSTEM	3577.00	845.67
COOLING AND DRAINS	144.00	803.90
LUBRICATING SYSTEM	212.00	840.80
FUEL SYSTEM	1380.00	953.40
ENGINE CONTROLS	236.00	666.20
STARTING SYSTEM	320.00	768.30
AUXILIARY POWER UNIT	554.00	644.70
INSTRUMENTS	1122.00	545.00
HYDRAULIC	1489.00	881.50
ELECTRICAL	2650.00	657.50
ELECTRONICS	2347.00	592.40
ARMAMENT	0.0	0.0
FURNISHINGS	3320.00	596.80
AIR CONDITIONING	2648.00	809.90
PHOTOGRAPHIC	0.0	0.0
AUXILIARY GEAR	95.00	1228.00
OTHER EQUIPMENT	113.00	300.00

INITIAL WEIGHT AND BALANCE DATA

USEFUL LOAD AND GROSS WEIGHT

LOAD CONDITION	MAXIMUM DESIGN WEIGHT		FLIGHT DESIGN GROSS WEIGHT		LANDING DESIGN GROSS WEIGHT	
	WEIGHT	ARM	WEIGHT	ARM	WEIGHT	ARM
CREW (NO. 4.0)	860.0	351.30	860.0	351.30	860.0	351.30
FUEL						
UNUSABLE	2164.0	1001.90	2164.0	1001.90	2164.0	1001.90
INTERNAL	67640.0	856.00	65739.9	856.00	28090.0	858.00
	49040.0	1047.34	49040.0	1047.34	28090.0	1047.34
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
OIL	416.0	753.61	416.0	753.61	416.0	753.61
FUSELAGE PAYLOAD	70000.0	887.00	70000.0	887.00	70000.0	887.00
WING PAYLOAD	0.0	0.0	0.0	0.0	0.0	0.0
ARMAMENT						
GUNS (QTY. 0.0)	0.0	0.0	0.0	0.0	0.0	0.0
AMMUNITION	0.0	0.0	0.0	0.0	0.0	0.0
INSTALLATIONS (PYLONS RACKS ETC.)						
WING	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
FUSELAGE	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
EQUIPMENT						
OXYGEN, LN2	0.0	0.0	0.0	0.0	0.0	0.0
MISCELLANEOUS	236.0	852.97	236.0	852.97	236.0	852.97
USEFUL LOAD	190356.0	916.55	188455.9	917.15	129855.9	913.29
WEIGHT EMPTY	127643.9	953.07	127643.9	953.07	127643.9	953.07
GROSS WEIGHT	317999.9	931.21	316099.8	931.65	257499.7	933.01

GROUP WEIGHT STATEMENT

WEIGHT EMPTY

WING GROUP		32045.8
CENTER SECTION - BASIC STRUCTURE	2434.2	
OUTER PANEL - BASIC STRUCTURE(INCL. TIPS 39.9 LBS.)	25728.3	
PIVOT	0.0	
AILERONS	743.3	
FLAPS - TRAILING EDGE	2414.7	
FLAPS - LEADING EDGE	0.0	
SLATS	0.0	
SPOILERS	725.3	
MISCELLANEOUS	722.2	
HORIZONTAL TAIL GROUP		2330.1
CENTER SECTION/SPINDLE	0.0	
STABILIZER - BASIC STRUCTURE	1811.6	
ELEVATOR	518.6	
MISCELLANEOUS	45.7	
VERTICAL TAIL GROUP		2104.1
CENTER SECTION/SPINDLE	0.0	
FINS - BASIC STRUCTURE	1832.7	
RUDDER	271.5	
MISCELLANEOUS	61.3	
BODY GROUP		26567.5
FUSELAGE BASIC STRUCTURE	19880.8	
SECONDARY STRUCTURE - FUSELAGE	1069.0	
- DOORS, PANELS, AND MISC.	6597.8	
		9040.0

ALIGHTING GEAR GROUP					
LOCATION	WHEELS, BRAKES TIRES, TUBES	STRUCTURE	CONTROLS		
FUSELAGE - MAIN GEAR	3303.2	2239.0	2823.1	8365.3	
FUSELAGE - NOSE GEAR	317.1	150.5	207.2	674.8	
SURFACE CONTROLS GROUP					3714.0
ENGINE SECTION					3825.8
INBOARD				1898.5	
CENTER					
OUTBOARD				1898.5	
DOORS, PANELS, AND MISC.				28.8	
STRUCTURE - OTHER AND MISC.					0.0
TOTAL (TO BE BROUGHT FORWARD)					79627.3

GROUP WEIGHT STATEMENT
WEIGHT EMPTY

PROPULSION GROUP			25239.5
ENGINE INSTALLATION		18759.0	
ACCESSORY GEAR BOXES AND DRIVES		0.0	
AIR INDUCTION SYSTEM		611.5	
STRUCTURE	611.5		
ACTUATION AND CONTROLS	0.0		
EXHAUST SYSTEM		3577.0	
COOLING SYSTEM AND DRAIN PROVISIONS		144.0	
LUBRICATING SYSTEM		212.0	
FUEL SYSTEM		1380.0	
ENGINE CONTROLS		236.0	
STARTING SYSTEM		320.0	
AUXILIARY POWER PLANT GROUP			554.0
INSTRUMENTS GROUP			1122.0
HYDRAULICS AND PNEUMATICS GROUP			1489.0
ELECTRICAL GROUP			2650.0
ELECTRONICS GROUP			2347.0
ARMAMENT GROUP			0.0
FURNISHINGS AND EQUIPMENT GROUP			3320.0
AIR CONDITIONING AND ANTI-ICING EQUIPMENT GROUP			2646.0
PHOTOGRAPHIC GROUP			0.0
AUXILIARY GEAR GROUP			95.0
OTHER EQUIPMENT AND MISC.			113.0
TOTAL FROM PREVIOUS PAGE			79627.3
WEIGHT EMPTY			119204.7

G R O S S W E I G H T S T A T E M E N T

USEFUL LOAD AND GROSS WEIGHT

LOAD CONDITION	MAXIMUM DESIGN WEIGHT		FLIGHT DESIGN GROSS WEIGHT		LANDING DESIGN GROSS WEIGHT	
	WEIGHT	ARM	WEIGHT	ARM	WEIGHT	ARM
CREW (NO. 4.0)	860.0	351.30	860.0	351.30	860.0	351.30
FUEL						
UNUSABLE	2164.0	1001.90	2164.0	1001.90	2164.0	1001.90
INTERNAL	67640.0	858.00	65739.9	858.00	28090.0	858.00
	49040.0	1047.34	49040.0	1047.34	28090.0	1047.34
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
OIL	416.0	753.61	416.0	753.61	416.0	753.61
FUSELAGE PAYLOAD	70000.0	887.00	70000.0	887.00	70000.0	887.00
WING PAYLOAD	0.0	0.0	0.0	0.0	0.0	0.0
ARMAMENT						
GUNS (QTY. 0.0)	0.0	0.0	0.0	0.0	0.0	0.0
AMMUNITION	0.0	0.0	0.0	0.0	0.0	0.0
INSTALLATIONS (PYLONS RACKS ETC.)						
WING	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
FUSELAGE	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
EQUIPMENT						
OXYGEN, LN2	0.0	0.0	0.0	0.0	0.0	0.0
MISCELLANEOUS	236.0	852.97	236.0	852.97	236.0	852.97
USEFUL LOAD	190356.0	916.55	188456.9	917.15	129855.9	913.29
WEIGHT EMPTY	119204.7	922.14	119204.7	922.14	119204.7	922.14
GROSS WEIGHT	309560.7	918.71	307660.7	919.08	249060.6	917.53

GROUP WEIGHT STATEMENT

WEIGHT EMPTY BALANCE DATA

	WEIGHT	HORIZ. ARM
WEIGHT EMPTY	119204.75	922.14
WING	32045.82	951.67
HORIZONTAL	2330.15	1842.55
VERTICAL	2104.13	1739.51
BODY	26567.52	975.22
MAIN GEAR	8365.26	991.77
NOSE GEAR	674.77	354.75
SURFACE CONTROLS	3714.00	1121.80
ENGINE SECTION	3625.76	806.47
OTHER STRUCTURE	0.0	0.0
ENGINE	18759.00	774.10
ACCESSORY GEAR BOXES	0.0	0.0
AIR INDUCTION SYSTEM	611.50	679.91
AIS ACTUATION AND CONTROLS	0.0	0.0
EXHAUST SYSTEM	3577.00	845.67
COOLING AND DRAINS	144.00	803.90
LUBRICATING SYSTEM	212.00	840.80
FUEL SYSTEM	1360.00	953.40
ENGINE CONTROLS	236.00	666.20
STARTING SYSTEM	320.00	768.30
AUXILIARY POWER UNIT	554.00	844.70
INSTRUMENTS	1122.00	545.00
HYDRAULIC	1489.00	881.90
ELECTRICAL	2650.00	657.50
ELECTRONICS	2347.00	592.40
ARMAMENT	0.0	0.0
FURNISHINGS	3320.00	596.60
AIR CONDITIONING	2648.00	809.90
PHOTOGRAPHIC	0.0	0.0
AUXILIARY GEAR	95.00	1226.00
OTHER EQUIPMENT	113.00	300.00

GROUP WEIGHT STATEMENT

DIMENSIONAL AND STRUCTURAL DATA

LENGTH - OVERALL (FT.) 141.53 HEIGHT - OVERALL - STATIC (FT.) 36.55

	FUSELAGE	INBOARD	NACELLES CENTER	OUTBOARD
LENGTH - MAX. (FT.)	132.29	16.60		16.60
DEPTH - MAX. (FT.)	14.17	5.50		5.50
WIDTH - MAX. (FT.)	14.17	5.50		5.50
WETTED AREA (SQ. FT.)	4972.75	277.19		277.19
FUSELAGE VOLUME (CU. FT.)	16020.56			

	WING	H. TAIL	V. TAIL
GROSS AREA (SQ. FT.)	3002.83	483.00	416.00
WEIGHT/GROSS AREA (LBS./SQ. FT.)	10.67	4.62	5.06
SPAN (FT.)	159.95	50.35	22.72
SWEEPBACK - AT .25C (DEGREES)	25.92	25.00	35.00
THEORETICAL ROOT CHORD - LENGTH (INCHES)	317.87	168.08	273.11
- MAX. THICKNESS (INCHES)	51.90	17.65	35.50
THEORETICAL TIP CHORD - LENGTH (INCHES)	132.70	62.17	166.30
- MAX. THICKNESS (INCHES)	13.27	6.53	21.62
TAIL LENGTH - .25 MAC WING TO .25 MAC H. TAIL (FT.)		74.20	

	NOSE	MAIN
ALIGHTING GEAR		
LENGTH - OLEO EXTENDED - AXLE TO TRUNNION (INCHES)	41.50	61.70
OLEO TRAVEL - FULL EXTENDED TO FULL COLLAPSED (INCHES)	12.00	26.00

STRUCTURAL DATA - CONDITION	STRESS GROSS WEIGHT	LIMIT LOAD FACTOR
FLIGHT	316099.81	2.50
LANDING	257499.75	
TAKE-OFF	317599.87	
LIMIT AIRPLANE LANDING SINK SPEED (FT./SEC.)		10.00
WING LIFT ASSUMED FOR LANDING DESIGN CONDITION (PERCENT WT.)		100.00
STALL SPEED - LANDING CONFIGURATION - POWER OFF (KNOTS)		103.00
PRESSURIZED CABIN - ULT. DESIGN PRESSURE DIFFERENTIAL - FLIGHT (P.S.I)		18.47

OUTPUT TABLES AND CONTROLS

PERMANENT AND VARIABLE DATA

IP	Overlay	Module	Subroutine	Description
1	(1,0)	Executive	READ	Case title and control card data
1	(1,0)	Executive		Permanent loads data DT array
1	(1,0)	Executive		Permanent loads data DB array
1	(1,0)	Executive		Permanent loads data DF array
1	(1,0)	Executive		Permanent loads data DP array
1	(1,0)	Executive		Permanent loads data DS array
1	(1,0)	Executive		Permanent loads data DE array
1	(1,0)	Executive		Permanent loads data DI array
1	(1,0)	Executive		Permanent loads data DG array
1	(1,0)	Executive		Permanent loads data DR array
1	(1,0)	Executive		Permanent wing, H-tail, and V-tail data
1	(1,0)	Executive	READ	Permanent fuselage data

OUTPUT TABLES AND CONTROLS

PERMANENT AND VARIABLE DATA (CONT)

IP	Overlay	Module	Subroutine	Description
1	(1,0)	Executive	READ	Permanent landing gear data
1	(1,0)	Executive		Permanent air induction system data
1	(1,0)	Executive		Permanent vibration, flutter, and temperature data
1	(1,0)	Executive		Permanent general data
1	(1,0)	Executive		Air foil data
1	(1,0)	Executive		GJ data
1	(1,0)	Executive		Material library data material No. 1
1	(1,0)	Executive		Material library data material No. 2
1	(1,0)	Executive		Material library data material No. 3
1	(1,0)	Executive		Material library data material No. 4
1	(1,0)	Executive		Material library data material No. 5
1	(1,0)	Executive		Material library data material No. 6
1	(1,0)	Executive	READ	Material library data material No. 7

OUTPUT TABLES AND CONTROLS

PERMANENT AND VARIABLE DATA (CONT)

IP	Overlay	Module	Subroutine	Description
1	(1,0)	Executive	READ	Material library data material No. 8
1	(1,0)	Executive		Material library data material No. 9
1	(1,0)	Executive		Material library data material No. 10
1	(1,0)	Executive		Material library data material No. 11
1	(1,0)	Executive		Material library data material No. 12
1	(1,0)	Executive		Material library data material No. 13
1	(1,0)	Executive		Material library data material No. 14
1	(1,0)	Executive		Material library data material No. 15
1	(1,0)	Executive		Material library data material No. 16
1	(1,0)	Executive		Material library data material No. 17
2	(1,0)	Executive		Input general data
2	(1,0)	Executive		Input fatigue data
2	(1,0)	Executive	READ	Input landing gear data

OUTPUT TABLES AND CONTROLS

PERMANENT AND VARIABLE DATA (CONCL)

IP	Overlay	Module	Subroutine	Description
2	(1,0)	Executive	READ	Input air induction system data
2	(1,0)	Executive		Input wing data
2	(1,0)	Executive		Input horizontal tail data
2	(1,0)	Executive		Input vertical tail data
2	(1,0)	Executive		Input fuselage data
2	(1,0)	Executive		Input wing, horizontal tail and vertical tail loads data
2	(1,0)	Executive		Input fuselage loads data
2	(1,0)	Executive	READ	Input inertia data

```
C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT     AUGUST 1973
C 141 TEST CASE                  ---NO. 1 ---
```

CONTROL CARD 1

```
         1         2         3         4         5         6         7         8
12345678901234567890123456789012345678901234567890123456789012345678901234567890
0001100111101111000000100100000100000000000000101011000000110000011011110000001 10
```

CONTROL CARD 2

```
         1         2         3         4         5         6         7         8
12345678901234567890123456789012345678901234567890123456789012345678901234567890
 6-1 1 1 0 1 1 0 0 1 1 1 1 1 1 1 1 1-1 0 0 0                          0001111011
```

*** PERMANENT DATA (PRINT IN CASE 1 WHEN IP(1) IS 0) ***

*** LOADS ARRAY DT(56) - - RECORD 1 ***

1	0.	.38300000E+00	.70700000E+00	.92400000E+00	0.
6	.25000000E+00	.50000000E+00	.10000000E+01	.20000000E+00	.60000000E+00
11	.80000000E+00	.90000000E+00	.95000000E+00	.10000000E+01	.10500000E+01
16	.11000000E+01	.11500000E+01	.12000000E+01	.20000000E+01	.35000000E+01
21	.10800000E+01	.87800000E+00	.64500000E+00	.50000000E+00	.35800000E+00
31	0.	0.	.33000000E+00	.33800000E+00	.39000000E+00
36	.52000000E+00	.56000000E+00	.57400000E+00	.58000000E+00	.58000000E+00
41	.58000000E+00	.58000000E+00	.58000000E+00	.58000000E+00	.23000000E+00
46	.23000000E+00	.24500000E+00	.31300000E+00	.39500000E+00	.43000000E+00
51	.44200000E+00	.44800000E+00	.45000000E+00	.45000000E+00	.45000000E+00
56	.45000000E+00	0.	0.	0.	0.

*** LOADS ARRAY QR(853) - - RECORD 2 ***

1	0.	.15000000E+02	.30000000E+02	.45000000E+02	.60000000E+02
6	.75000000E+02	.15000000E+01	.25000000E+01	.35000000E+01	.45000000E+01
11	.60000000E+01	.80000000E+01	.10000000E+02	.13550000E+01	.13400000E+01
16	.13250000E+01	.13100000E+01	.13000000E+01	.12950000E+01	.14050000E+01
21	.13860000E+01	.13520000E+01	.13220000E+01	.13100000E+01	.12980000E+01
26	.14500000E+01	.14050000E+01	.13720000E+01	.13400000E+01	.13120000E+01
31	.13010000E+01	.14800000E+01	.14300000E+01	.13870000E+01	.13500000E+01
36	.13140000E+01	.13040000E+01	.15200000E+01	.14570000E+01	.14000000E+01
41	.13550000E+01	.13160000E+01	.13060000E+01	.15800000E+01	.14930000E+01
46	.14200000E+01	.13600000E+01	.13180000E+01	.13080000E+01	.16100000E+01
51	.15200000E+01	.14350000E+01	.13700000E+01	.13200000E+01	.13100000E+01
56	.13070000E+01	.13000000E+01	.12860000E+01	.12650000E+01	.12320000E+01
61	.11400000E+01	.13320000E+01	.13020000E+01	.12780000E+01	.12400000E+01
66	.11750000E+01	.10700000E+01	.13460000E+01	.13050000E+01	.12670000E+01
71	.12150000E+01	.11350000E+01	.10200000E+01	.13600000E+01	.13070000E+01
76	.12600000E+01	.12000000E+01	.11000000E+01	.10000000E+01	.13820000E+01
81	.13100000E+01	.12500000E+01	.11800000E+01	.10800000E+01	.97000000E+00
86	.14000000E+01	.13120000E+01	.12320000E+01	.11400000E+01	.10450000E+01
91	.94000000E+00	.14200000E+01	.13150000E+01	.12200000E+01	.11200000E+01
96	.10050000E+01	.88000000E+00	.12900000E+01	.12800000E+01	.12650000E+01
101	.12420000E+01	.11830000E+01	.10350000E+01	.12910000E+01	.12700000E+01
106	.12400000E+01	.11850000E+01	.11000000E+01	.94500000E+00	.12920000E+01
111	.12550000E+01	.12000000E+01	.11400000E+01	.10300000E+01	.86000000E+00
116	.12930000E+01	.12400000E+01	.11800000E+01	.11000000E+01	.97000000E+00
121	.78500000E+00	.12960000E+01	.12300000E+01	.11500000E+01	.10500000E+01
126	.91500000E+00	.71000000E+00	.13000000E+01	.12100000E+01	.11200000E+01
131	.10100000E+01	.86000000E+00	.60500000E+00	.13050000E+01	.12000000E+01
136	.10900000E+01	.95000000E+00	.77000000E+00	.52000000E+00	.12670000E+01
141	.12520000E+01	.12250000E+01	.11900000E+01	.10900000E+01	.89000000E+00
146	.12500000E+01	.12120000E+01	.11640000E+01	.10900000E+01	.96000000E+00
151	.75000000E+00	.12350000E+01	.11900000E+01	.11070000E+01	.10100000E+01
156	.88000000E+00	.70000000E+00	.12150000E+01	.11450000E+01	.10600000E+01
161	.94500000E+00	.80500000E+00	.61000000E+00	.11850000E+01	.11000000E+01
166	.10020000E+01	.88500000E+00	.74000000E+00	.55000000E+00	.11670000E+01
171	.10070000E+01	.94500000E+00	.81000000E+00	.66000000E+00	.46000000E+00
176	.11400000E+01	.10250000E+01	.89200000E+00	.74500000E+00	.57500000E+00

181	.35000000E+00	.12200000E+01	.12070000E+01	.12000000E+01	.12000000E+01
186	.12010000E+01	.12100000E+01	.12350000E+01	.12200000E+01	.12120000E+01
191	.12120000E+01	.12150000E+01	.12300000E+01	.12400000E+01	.12270000E+01
196	.12210000E+01	.12250000E+01	.12300000E+01	.12450000E+01	.12500000E+01
201	.12400000E+01	.12320000E+01	.12300000E+01	.12450000E+01	.12600000E+01
206	.12600000E+01	.12570000E+01	.12500000E+01	.12450000E+01	.12500000E+01
211	.12700000E+01	.12700000E+01	.12700000E+01	.12730000E+01	.12750000E+01
216	.12900000E+01	.13000000E+01	.12650000E+01	.12650000E+01	.12650000E+01
221	.12700000E+01	.12800000E+01	.12950000E+01	.11850000E+01	.11800000E+01
226	.11800000E+01	.11800000E+01	.11750000E+01	.11500000E+01	.11850000E+01
231	.11800000E+01	.11800000E+01	.11800000E+01	.11750000E+01	.11500000E+01
236	.11840000E+01	.11800000E+01	.11800000E+01	.11700000E+01	.11660000E+01
241	.11350000E+01	.11830000E+01	.11800000E+01	.11800000E+01	.11700000E+01
246	.11660000E+01	.11350000E+01	.11820000E+01	.11800000E+01	.11800000E+01
251	.11650000E+01	.11550000E+01	.11200000E+01	.11810000E+01	.11800000E+01
256	.11800000E+01	.11650000E+01	.11550000E+01	.11200000E+01	.11770000E+01
261	.11760000E+01	.11750000E+01	.11600000E+01	.11500000E+01	.11100000E+01
266	.11800000E+01	.11800000E+01	.11800000E+01	.11750000E+01	.11650000E+01
271	.11400000E+01	.11800000E+01	.11800000E+01	.11750000E+01	.11620000E+01
276	.11500000E+01	.11120000E+01	.11800000E+01	.11700000E+01	.11650000E+01
281	.11500000E+01	.11400000E+01	.10900000E+01	.11700000E+01	.11650000E+01
286	.11600000E+01	.11450000E+01	.11200000E+01	.10800000E+01	.11600000E+01
291	.11600000E+01	.11550000E+01	.11320000E+01	.11000000E+01	.10550000E+01
296	.11550000E+01	.11550000E+01	.11500000E+01	.11200000E+01	.10900000E+01
301	.10350000E+01	.11450000E+01	.11400000E+01	.11300000E+01	.11050000E+01
306	.10700000E+01	.10050000E+01	.11750000E+01	.11700000E+01	.11700000E+01
311	.11680000E+01	.11600000E+01	.11350000E+01	.11700000E+01	.11650000E+01
316	.11620000E+01	.11550000E+01	.11350000E+01	.10700000E+01	.11650000E+01
321	.11600000E+01	.11550000E+01	.11420000E+01	.11100000E+01	.10200000E+01
326	.11520000E+01	.11500000E+01	.11450000E+01	.11200000E+01	.10800000E+01
331	.97000000E+00	.11400000E+01	.11400000E+01	.11300000E+01	.11050000E+01
336	.10450000E+01	.92000000E+00	.11200000E+01	.11200000E+01	.11170000E+01
341	.10800000E+01	.10100000E+01	.89000000E+00	.11120000E+01	.11120000E+01
346	.10980000E+01	.10600000E+01	.98000000E+00	.84500000E+00	.85500000E+00
351	.86200000E+00	.87000000E+00	.87000000E+00	.87000000E+00	.87500000E+00
356	.82500000E+00	.84200000E+00	.85000000E+00	.86000000E+00	.86800000E+00
361	.87400000E+00	.80000000E+00	.82500000E+00	.84000000E+00	.86000000E+00
366	.86500000E+00	.87200000E+00	.78000000E+00	.80500000E+00	.83000000E+00
371	.85000000E+00	.86000000E+00	.87000000E+00	.75000000E+00	.78500000E+00

376	.81000000E+00	.84000000E+00	.85400000F+00	.86800000E+00	.72000000E+00
381	.76000000E+00	.80000000E+00	.83000000F+00	.85500000E+00	.86700000E+00
386	.70000000E+00	.74000000E+00	.77500000F+00	.81000000E+00	.84200000E+00
391	.86500000E+00	.88000000E+00	.89000000F+00	.90000000E+00	.91500000E+00
396	.93500000E+00	.97000000E+00	.87500000F+00	.88700000E+00	.90300000E+00
401	.92000000E+00	.95000000E+00	.99800000F+00	.86000000E+00	.88400000E+00
406	.90700000E+00	.92700000E+00	.96000000F+00	.10100000E+01	.85000000E+00
411	.88000000E+00	.91000000E+00	.94000000E+00	.99000000E+00	.10450000E+01
416	.84000000E+00	.87600000E+00	.91300000F+00	.95000000E+00	.10000000E+01
421	.10700000E+01	.89000000E+00	.87300000F+00	.91700000E+00	.96000000E+00
426	.10150000E+01	.10900000E+01	.81500000F+00	.87000000E+00	.92000000E+00
431	.97000000E+00	.10300000E+01	.11000000F+01	.89000000E+00	.90000000E+00
436	.96500000E+00	.92000000E+00	.95500000E+00	.10300000E+01	.89000000E+00
441	.90000000E+00	.92200000E+00	.95500000E+00	.10050000E+01	.10850000E+01
446	.89000000E+00	.91000000E+00	.94000000E+00	.98000000E+00	.10300000E+01
451	.11100000E+01	.89000000E+00	.92000000F+00	.95500000E+00	.99500000E+00
456	.10550000E+01	.11500000E+01	.89000000F+00	.93000000E+00	.97000000E+00
461	.10150000E+01	.10850000E+01	.11450000E+01	.89000000E+00	.93500000E+00
466	.98500000E+00	.10400000E+01	.11100000E+01	.12300000E+01	.89000000E+00
471	.94500000E+00	.10000000E+01	.10700000F+01	.11550000E+01	.12600000E+01
476	.91000000E+00	.91000000E+00	.92000000F+00	.95000000E+00	.10000000E+01
481	.11300000E+01	.92000000E+00	.94000000F+00	.97000000E+00	.10100000E+01
486	.10900000E+01	.12150000E+01	.93500000E+00	.96000000E+00	.99500000E+00
491	.10550000E+01	.11300000E+01	.12500000E+01	.94700000E+00	.98500000E+00
496	.10300000E+01	.10900000E+01	.11650000F+01	.12850000E+01	.96000000E+00
501	.10050000E+01	.10600000E+01	.11200000E+01	.12000000E+01	.13100000E+01
506	.98000000E+00	.10300000E+01	.10900000F+01	.11600000E+01	.12500000E+01
511	.13500000E+01	.99000000E+00	.10500000F+01	.11150000E+01	.11950000E+01
516	.12900000E+01	.14000000E+01	.39000000E+00	.41500000E+00	.42000000E+00
521	.43800000E+00	.44500000E+00	.42000000F+00	.34000000E+00	.36700000E+00
526	.39000000F+00	.40200000E+00	.41000000F+00	.40000000E+00	.30500000E+00
531	.34000000E+00	.36700000E+00	.38200000F+00	.39500000E+00	.39000000E+00
536	.28500000E+00	.31800000E+00	.34700000E+00	.36500000E+00	.38000000E+00
541	.34000000E+00	.25200000E+00	.29000000F+00	.32000000E+00	.35000000E+00
546	.36200000E+00	.36000000E+00	.26000000F+00	.24500000E+00	.28800000E+00
551	.31200000E+00	.34000000E+00	.34000000E+00	.20700000E+00	.25000000E+00
556	.29200000E+00	.31400000E+00	.34200000F+00	.35000000E+00	.46500000E+00
561	.44000000E+00	.48500000E+00	.49500000F+00	.51500000E+00	.60000000E+00
566	.46400000E+00	.48300000E+00	.49500000F+00	.52000000E+00	.57000000E+00

571	.66000000E+00	.46200000E+00	.48500000E+00	.50000000E+00	.54000000E+00
576	.60500000E+00	.73000000E+00	.46000000E+00	.48800000E+00	.51000000E+00
581	.56000000E+00	.63000000E+00	.75000000E+00	.46200000E+00	.49000000E+00
586	.53000000E+00	.59000000E+00	.67500000E+00	.80000000E+00	.46400000E+00
591	.50000000E+00	.55000000E+00	.62500000E+00	.73000000E+00	.88500000E+00
596	.46500000E+00	.51000000E+00	.56500000E+00	.64000000E+00	.76000000E+00
601	.93500000E+00	.48500000E+00	.49000000E+00	.49500000E+00	.50200000E+00
606	.53500000E+00	.65000000E+00	.48500000E+00	.49200000E+00	.51000000E+00
611	.55000000E+00	.60500000E+00	.71000000E+00	.49000000E+00	.51000000E+00
616	.54500000E+00	.59200000E+00	.67500000E+00	.82000000E+00	.50000000E+00
621	.53000000E+00	.57000000E+00	.62000000E+00	.71000000E+00	.87000000E+00
626	.51500000E+00	.55000000E+00	.60000000E+00	.66500000E+00	.76000000E+00
631	.91000000E+00	.53700000E+00	.58000000E+00	.64000000E+00	.71000000E+00
636	.81500000E+00	.96000000E+00	.55000000E+00	.61000000E+00	.68000000E+00
641	.76000000E+00	.87000000E+00	.10200000E+01	.50000000E+00	.50000000E+00
646	.51000000E+00	.53000000E+00	.57000000E+00	.70000000E+00	.51000000E+00
651	.52000000E+00	.55000000E+00	.59000000E+00	.66000000E+00	.85500000E+00
656	.52500000E+00	.55300000E+00	.59000000E+00	.64500000E+00	.74500000E+00
661	.94000000E+00	.55000000E+00	.58000000E+00	.62500000E+00	.69000000E+00
666	.80000000E+00	.99000000E+00	.58000000E+00	.62000000E+00	.68000000E+00
671	.75500000E+00	.87500000E+00	.10700000E+01	.61000000E+00	.66500000E+00
676	.73000000E+00	.82500000E+00	.96000000E+00	.11600000E+01	.64200000E+00
681	.70000000E+00	.78000000E+00	.88500000E+00	.10300000E+01	.12700000E+01
686	.33500000E-01	.34200000E-01	.34800000E-01	.34800000E-01	.31500000E-01
691	.22500000E-01	.47300000E-01	.48400000E-01	.48200000E-01	.46200000E-01
696	.39500000E-01	.23100000E-01	.57400000E-01	.58400000E-01	.57200000E-01
701	.52500000E-01	.42500000E-01	.23700000E-01	.64299900E-01	.65000000E-01
706	.62800000E-01	.56900000E-01	.45300000E-01	.24400000E-01	.72000000E-01
711	.72700000E-01	.69400000E-01	.61500000E-01	.47500000E-01	.26500000E-01
716	.78699900E-01	.78800000E-01	.74500000E-01	.64500000E-01	.49300000E-01
721	.27200000E-01	.84700000E-01	.84000000E-01	.77999900E-01	.67000000E-01
726	.50500000E-01	.27800000E-01	.34800000E-01	.35000000E-01	.35000000E-01
731	.35000000E-01	.31500000E-01	.20500000E-01	.49800000E-01	.50000000E-01
736	.49200000E-01	.46500000E-01	.38000000E-01	.21700000E-01	.60000000E-01
741	.60500000E-01	.58500000E-01	.52700000E-01	.42000000E-01	.22900000E-01
746	.67600000E-01	.67300000E-01	.63800000E-01	.56800000E-01	.43900000E-01
751	.24200000E-01	.76000000E-01	.75000000E-01	.70200000E-01	.61000000E-01
756	.46500000E-01	.26000000E-01	.82800000E-01	.81000000E-01	.75000000E-01
761	.64699900E-01	.49000000E-01	.26800000E-01	.88000000E-01	.86000000E-01

766	.79600000E-01	.67700000E-01	.50500000E-01	.27500000E-01	.35000000E-01
771	.35000000E-01	.34800000E-01	.33800000E-01	.30000000E-01	.20000000E-01
776	.50000000E-01	.50000000E-01	.49400000E-01	.45000000E-01	.37000000E-01
781	.20900000E-01	.60000000E-01	.59800000E-01	.57000000E-01	.51000000E-01
786	.40000000E-01	.21900000E-01	.67899900E-01	.66900000E-01	.62800000E-01
791	.54600000E-01	.41800000E-01	.22800000E-01	.76000000E-01	.73999900E-01
796	.68000000E-01	.58500000E-01	.44000000E-01	.23600000E-01	.82999900E-01
801	.80000000E-01	.72500000E-01	.61500000E-01	.45000000E-01	.24200000E-01
806	.87800000E-01	.84500000E-01	.75500000E-01	.63000000E-01	.46000000E-01
811	.24800000E-01	.34700000E-01	.34600000E-01	.34000000E-01	.32200000E-01
816	.28000000E-01	.18500000E-01	.48500000E-01	.48000000E-01	.45800000E-01
821	.41500000E-01	.34000000E-01	.19200000F-01	.58200000E-01	.56800000E-01
826	.53500000E-01	.47500000E-01	.37000000F-01	.19800000E-01	.65000000E-01
831	.63000000E-01	.58400000E-01	.50500000E-01	.38500000E-01	.20500000E-01
836	.73000000E-01	.70200000E-01	.64500000E-01	.54500000E-01	.40500000E-01
841	.21500000E-01	.79500000E-01	.76000000E-01	.68500000E-01	.57500000E-01
846	.42500000E-01	.22800000E-01	.84000000E-01	.80499900E-01	.73200000E-01
851	.61500000E-01	.45000000E-01	.24000000E-01	0.	0.

*** LOADS ARRAY DF(146) - - RECORD 3 ***

1	0.	.10000000E+00	.30000000E+00	.65000000E+00	.10000000E+01
6	.57500000E+00	.52000000E+00	.45000000E+00	.37300000E+00	.33300000E+00
11	0.	.39000000E+00	.65500000E+00	.90200000E+00	.10000000E+01
16	.10000000E+00	.20000000E+00	.30000000E+00	.40000000E+00	.50000000E+00
21	.60000000E+00	.70000000E+00	.80000000E+00	.90000000E+00	.10000000E+01
26	0.	.10000000E+00	.20000000E+00	.30000000E+00	.40000000E+00
31	.50000000E+00	.60000000E+00	.70000000E+00	.80000000E+00	.90000000E+00
36	.10000000E+01	.52000000E+00	.41000000E+00	.21600000E+00	.16400000E+00
41	.12000000E+00	.84000000E-01	.52000000E-01	.40000000E-01	.40000000E-01
46	.32000000E-01	0.	.78800000E+00	.77600000E+00	.54000000E+00
51	.33600000E+00	.25200000E+00	.19900000E+00	.14000000E+00	.10000000E+00
56	.72000000E-01	.52000000E-01	0.	.96400000E+00	.97000000E+00
61	.93000000E+00	.68000000E+00	.42400000E+00	.30800000E+00	.22000000E+00
66	.16000000E+00	.11000000E+00	.72000000E-01	0.	.10680000E+01
71	.10520000E+01	.10080000E+01	.92000000E+00	.60400000E+00	.40000000E+00
76	.30400000E+00	.21200000E+00	.15000000E+00	.96000000E-01	0.
81	.11200000E+01	.11240000E+01	.11080000E+01	.10400000E+01	.94800000E+00
86	.64000000E+00	.43000000E+00	.30000000E+00	.20000000E+00	.12000000E+00
91	0.	.11700000E+01	.11760000E+01	.11700000E+01	.11160000E+01
96	.10280000E+01	.91200000E+00	.58600000E+00	.39600000E+00	.26800000E+00
101	.16000000E+00	0.	.12320000E+01	.12300000E+01	.12000000E+01
106	.11500000E+01	.10880000E+01	.99000000E+00	.85200000E+00	.60000000E+00
111	.35000000E+00	.20000000E+00	0.	.12400000E+01	.12400000E+01
116	.12200000E+01	.11800000E+01	.11200000E+01	.10500000E+01	.94000000E+00
121	.80000000E+00	.54000000E+00	.28000000E+00	0.	.12500000E+01
126	.12500000E+01	.12400000E+01	.12200000E+01	.11700000E+01	.10800000E+01
131	.98000000E+00	.86400000E+00	.73600000E+00	.46000000E+00	0.
136	.12400000E+01	.12400000E+01	.12200000E+01	.12080000E+01	.11720000E+01
141	.10920000E+01	.10000000E+01	.90000000E+00	.76800000E+00	.58800000E+00

*** LOADS ARRAY DP(734) - - RECORD 4 ***

1	.20000000E+01	.30000000E+01	.40000000E+01	.60000000E+01	.12000000E+02
6	.40000000E+00	.60000000E+00	.80000000E+00	.10000000E+01	.13000000E+01
11	.20000000E+01	.30000000E+01	.50000000E+01	.12000000E+02	.13920000E+01
16	.18800000E+01	.22560000E+01	.25360000E+01	.27000000E+01	.30500000E+01
21	.33250000E+01	.34750000E+01	.36750000E+01	.91500000E+00	.12600000E+01
26	.15000000E+01	.17000000E+01	.18420000E+01	.20560000E+01	.22600000E+01
31	.23750000E+01	.25200000E+01	.70800000E+00	.94000000E+00	.11300000E+01
36	.12750000E+01	.13880000E+01	.15360000E+01	.16700000E+01	.17760000E+01
41	.19000000E+01	.45500000E+00	.62600000E+00	.75800000E+00	.85000000E+00
46	.92300000E+00	.10260000E+01	.11050000E+01	.11900000E+01	.12700000E+01
51	.22400000E+00	.31000000E+00	.37800000E+00	.42500000E+00	.46200000E+00
56	.51500000E+00	.55000000E+00	.59200000E+00	.63300000E+00	.11000000E+01
61	.15100000E+01	.18100000E+01	.20400000E+01	.21550000E+01	.22950000E+01
66	.24350000E+01	.26050000E+01	.27600000E+01	.75300000E+00	.10040000E+01
71	.12000000E+01	.13520000E+01	.14800000E+01	.16500000E+01	.17760000E+01
76	.19000000E+01	.20200000E+01	.54500000E+00	.74600000E+00	.90200000E+00
81	.10200000E+01	.11050000E+01	.12350000E+01	.13300000E+01	.14200000E+01
86	.15150000E+01	.35300000E+00	.49000000E+00	.60000000E+00	.68000000E+00
91	.73800000E+00	.82500000E+00	.88800000E+00	.94800000E+00	.10080000E+01
96	.19000000E+00	.26000000E+00	.31000000E+00	.33900000E+00	.37000000E+00
101	.41000000E+00	.44300000E+00	.47500000E+00	.51000000E+00	.91000000E+00
106	.12560000E+01	.15100000E+01	.17000000E+01	.18000000E+01	.19100000E+01
111	.20250000E+01	.21700000E+01	.23300000E+01	.60300000E+00	.82800000E+00
116	.10050000E+01	.11340000E+01	.12240000E+01	.13720000E+01	.14760000E+01
121	.15800000E+01	.16850000E+01	.46200000E+00	.63500000E+00	.75500000E+00
126	.85000000E+00	.92000000E+00	.10250000E+01	.11100000E+01	.11880000E+01
131	.12600000E+01	.29600000E+00	.41000000E+00	.50300000E+00	.56800000E+00
136	.61500000E+00	.68600000E+00	.74000000E+00	.79200000E+00	.84000000E+00
141	.13800000E+00	.20000000E+00	.25500000E+00	.28200000E+00	.30800000E+00
146	.34300000E+00	.36800000E+00	.39500000E+00	.42000000E+00	.73200000E+00
151	.97500000E+00	.11500000E+01	.12720000E+01	.13840000E+01	.15400000E+01
156	.16600000E+01	.17760000E+01	.18950000E+01	.44800000E+00	.62000000E+00
161	.75200000E+00	.85000000E+00	.93000000E+00	.10300000E+01	.11110000E+01
166	.11900000E+01	.12550000E+01	.33800000E+00	.46800000E+00	.57000000E+00
171	.64000000E+00	.69000000E+00	.77000000E+00	.83500000E+00	.89000000E+00
176	.93500000E+00	.21300000E+00	.30200000E+00	.37300000E+00	.42500000E+00

181	.46000000E+00	.51400000E+00	.55600000E+00	.59500000E+00	.63000000E+00
186	.10000000E+00	.14800000E+00	.18800000E+00	.21200000E+00	.23000000E+00
191	.25800000E+00	.27800000E+00	.29900000E+00	.31200000E+00	.13760000E+01
196	.16560000E+01	.18520000E+01	.20000000E+01	.20000000E+01	.20000000E+01
201	.20000000E+01	.20750000E+01	.21250000E+01	.10150000E+01	.12400000E+01
206	.13600000E+01	.14500000E+01	.14700000E+01	.15100000E+01	.15100000E+01
211	.15600000E+01	.15750000E+01	.96000000E+00	.10150000E+01	.11140000E+01
216	.11700000E+01	.11680000E+01	.11980000E+01	.12000000E+01	.12160000E+01
221	.12290000E+01	.66000000E+00	.78200000E+00	.84600000E+00	.88600000E+00
226	.86800000E+00	.85000000E+00	.83200000E+00	.82600000E+00	.82400000E+00
231	.44000000E+00	.52000000E+00	.55200000E+00	.57000000E+00	.52600000E+00
236	.47200000E+00	.44300000E+00	.42000000E+00	.41600000E+00	.12700000E+01
241	.15640000E+01	.17450000E+01	.18800000E+01	.20000000E+01	.21070000E+01
246	.21800000E+01	.22200000E+01	.22600000E+01	.98000000E+00	.11720000E+01
251	.12900000E+01	.13700000E+01	.13900000E+01	.14200000E+01	.14400000E+01
256	.14800000E+01	.14900000E+01	.79500000E+00	.96000000E+00	.10540000E+01
261	.11140000E+01	.11100000E+01	.11120000E+01	.11140000E+01	.11240000E+01
266	.11220000E+01	.57500000E+00	.72000000E+00	.80500000E+00	.84000000E+00
271	.82000000E+00	.79200000E+00	.77500000E+00	.76500000E+00	.76000000E+00
276	.35500000E+00	.46000000E+00	.52000000E+00	.54200000E+00	.49800000E+00
281	.43800000E+00	.40300000E+00	.39000000E+00	.38000000E+00	.12400000E+01
286	.15000000E+01	.16700000E+01	.17960000E+01	.18010000E+01	.18120000E+01
291	.18280000E+01	.18600000E+01	.19000000E+01	.91500000E+00	.11100000E+01
296	.12360000E+01	.13140000E+01	.13280000E+01	.13440000E+01	.13720000E+01
301	.13880000E+01	.14000000E+01	.75000000E+00	.91500000E+00	.10150000E+01
306	.10700000E+01	.10600000E+01	.10600000E+01	.10610000E+01	.10620000E+01
311	.10760000E+01	.54200000E+00	.69000000E+00	.78000000E+00	.81000000E+00
316	.78400000E+00	.75500000E+00	.74000000E+00	.72800000E+00	.71900000E+00
321	.34000000E+00	.44500000E+00	.51100000E+00	.52600000E+00	.47800000E+00
326	.41500000E+00	.38000000E+00	.36500000E+00	.36000000E+00	.11450000E+01
331	.14050000E+01	.15800000E+01	.16920000E+01	.17400000E+01	.17740000E+01
336	.17780000E+01	.17760000E+01	.17720000E+01	.82500000E+00	.10300000E+01
341	.11700000E+01	.12480000E+01	.12500000E+01	.12630000E+01	.12800000E+01
346	.12960000E+01	.13100000E+01	.66500000E+00	.84500000E+00	.96000000E+00
351	.10160000E+01	.10050000E+01	.99800000E+00	.99600000E+00	.99500000E+00
356	.99500000E+00	.50000000E+00	.64000000E+00	.73000000E+00	.77000000E+00
361	.74400000E+00	.71200000E+00	.69200000E+00	.68000000E+00	.67000000E+00
366	.32000000E+00	.42000000E+00	.48200000E+00	.50500000E+00	.45400000E+00
371	.36500000E+00	.35300000E+00	.34200000E+00	.33500000E+00	.10800000E+01
376	.12400000E+01	.13200000E+01	.13400000E+01	.12500000E+01	.11400000E+01

381	•10700000E•01	•10200000E•01	•10100000E•01	•83500000E•00	•98000000E•00
386	•10320000E•01	•10720000E•01	•99000000E•00	•89200000E•00	•82000000E•00
391	•77000000E•00	•76500000E•00	•71300000E•00	•82600000E•00	•87600000E•00
396	•90000000E•00	•80000000E•00	•67000000E•00	•61400000E•00	•59000000E•00
401	•58800000E•00	•55000000E•00	•66200000E•00	•70000000E•00	•71500000E•00
406	•59200000E•00	•45000000E•00	•41000000E•00	•39200000E•00	•38800000E•00
411	•33000000E•00	•43000000E•00	•48200000E•00	•49000000E•00	•30500000E•00
416	•22500000E•00	•20200000E•00	•19800000E•00	•19400000E•00	•12400000E•01
421	•14400000E•01	•14480000E•01	•14300000E•01	•13950000E•01	•13250000E•01
426	•12450000E•01	•11600000E•01	•10650000E•01	•96500000E•00	•11260000E•01
431	•12020000E•01	•12500000E•01	•11800000E•01	•10800000E•01	•10100000E•01
436	•94000000E•00	•89000000E•00	•78300000E•00	•94300000E•00	•10120000E•01
441	•10450000E•01	•96500000E•00	•86000000E•00	•79600000E•00	•75600000E•00
446	•73500000E•00	•58600000E•00	•73500000E•00	•80400000E•00	•82000000E•00
451	•72500000E•00	•58000000E•00	•53000000E•00	•50800000E•00	•50500000E•00
456	•35500000E•00	•47000000E•00	•54000000E•00	•56000000E•00	•39000000E•00
461	•28700000E•00	•26400000E•00	•25500000E•00	•25200000E•00	•13800000E•01
466	•14480000E•01	•14790000E•01	•14700000E•01	•14000000E•01	•13200000E•01
471	•12450000E•01	•11600000E•01	•11100000E•01	•10100000E•01	•12100000E•01
476	•13080000E•01	•13640000E•01	•12680000E•01	•11800000E•01	•11000000E•01
481	•10280000E•01	•97000000E•00	•80000000E•00	•99500000E•00	•11000000E•01
486	•11350000E•01	•10600000E•01	•97500000E•00	•90200000E•00	•85000000E•00
491	•80700000E•00	•58500000E•00	•76000000E•00	•86000000E•00	•89000000E•00
496	•79600000E•00	•66400000E•00	•60800000E•00	•58500000E•00	•57800000E•00
501	•40000000E•00	•51200000E•00	•58000000E•00	•60200000E•00	•45000000E•00
506	•33000000E•00	•30200000E•00	•29200000E•00	•28800000E•00	•13900000E•01
511	•14900000E•01	•15200000E•01	•15120000E•01	•14800000E•01	•14480000E•01
516	•14220000E•01	•13800000E•01	•13250000E•01	•11430000E•01	•13350000E•01
521	•14120000E•01	•14040000E•01	•13500000E•01	•12520000E•01	•11860000E•01
526	•11250000E•01	•10730000E•01	•88000000E•00	•10930000E•01	•12150000E•01
531	•12500000E•01	•11850000E•01	•10850000E•01	•10050000E•01	•94200000E•00
536	•89500000E•00	•62200000E•00	•81300000E•00	•93000000E•00	•98000000E•00
541	•88800000E•00	•77000000E•00	•70500000E•00	•68000000E•00	•66800000E•00
546	•39000000E•00	•52500000E•00	•61500000E•00	•65400000E•00	•52000000E•00
551	•38500000E•00	•35200000E•00	•34200000E•00	•33500000E•00	•59600000E•00
556	•65200000E•00	•69600000E•00	•70800000E•00	•42500000E•00	•30000000E•00
561	•27000000E•00	•27000000E•00	•27000000E•00	•49500000E•00	•53200000E•00
566	•55600000E•00	•56000000E•00	•32000000E•00	•23000000E•00	•20500000E•00
571	•20500000E•00	•20500000E•00	•43200000E•00	•46400000E•00	•48000000E•00
576	•48000000E•00	•24600000E•00	•18000000E•00	•16000000E•00	•16000000E•00

581	.16000000E+00	.31000000E+00	.37500000E+00	.38700000E+00	.39000000E+00
586	.15800000E+00	.11800000E+00	.10800000E+00	.10000000E+00	.10000000E+00
591	.20200000E+00	.35600000E+00	.27500000E+00	.27500000E+00	.77999900E-01
596	.60000000E-01	.57000000E-01	.50000000E-01	.50000000E-01	.81000000E+00
601	.79400000E+00	.78000000E+00	.76000000E+00	.72500000E+00	.63500000E+00
606	.53300000E+00	.49000000E+00	.45000000E+00	.80000000E+00	.79000000E+00
611	.77000000E+00	.73000000E+00	.69200000E+00	.53600000E+00	.46400000E+00
616	.42400000E+00	.39500000E+00	.79000000E+00	.78000000E+00	.75200000E+00
621	.72000000E+00	.63500000E+00	.45000000E+00	.40000000E+00	.36600000E+00
626	.34700000E+00	.55500000E+00	.67000000E+00	.71600000E+00	.70000000E+00
631	.49000000E+00	.34000000E+00	.30500000E+00	.28000000E+00	.27000000E+00
636	.35000000E+00	.44500000E+00	.49500000E+00	.50500000E+00	.25500000E+00
641	.19000000E+00	.17200000E+00	.16700000E+00	.16100000E+00	.80500000E+00
646	.80500000E+00	.80300000E+00	.80000000E+00	.79000000E+00	.75800000E+00
651	.66400000E+00	.58500000E+00	.54500000E+00	.78500000E+00	.78500000E+00
656	.78000000E+00	.76000000E+00	.70300000E+00	.64000000E+00	.56400000E+00
661	.51000000E+00	.47800000E+00	.76500000E+00	.76500000E+00	.75500000E+00
666	.73500000E+00	.66000000E+00	.55000000E+00	.48500000E+00	.45000000E+00
671	.42100000E+00	.74000000E+00	.74000000E+00	.73000000E+00	.71000000E+00
676	.59000000E+00	.44200000E+00	.38300000E+00	.35500000E+00	.33100000E+00
681	.43000000E+00	.55000000E+00	.61500000E+00	.63500000E+00	.37500000E+00
686	.27300000E+00	.24400000E+00	.22800000E+00	.22000000E+00	.84000000E+00
691	.84000000E+00	.84000000E+00	.84000000E+00	.82500000E+00	.82200000E+00
696	.80500000E+00	.74400000E+00	.71200000E+00	.79500000E+00	.79500000E+00
701	.79500000E+00	.79500000E+00	.77500000E+00	.74500000E+00	.68500000E+00
706	.63000000E+00	.59700000E+00	.76000000E+00	.76000000E+00	.76000000E+00
711	.76000000E+00	.74800000E+00	.67000000E+00	.58400000E+00	.54000000E+00
716	.50500000E+00	.74000000E+00	.74000000E+00	.74000000E+00	.74000000E+00
721	.70000000E+00	.54000000E+00	.47000000E+00	.43000000E+00	.40000000E+00
726	.71000000E+00	.71000000E+00	.71000000E+00	.71000000E+00	.50000000E+00
731	.35200000E+00	.31000000E+00	.28500000E+00	.27000000E+00	0.

*** LOADS ARRAY DS(288) - - RECORD 5 ***

1	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
6	.20000000E+01	.30000000E+01	.10000000E+01	.70000000E+00	.70000000E+00
11	.20000000E+01	.90000000E+00	.85000000E+00	.80000000E+00	.80000000E+00
16	.80000000E+00	.15000000E+05	.20000000E+05	.40000000E+05	.25000000E+05
21	0.	0.	.10000000E+05	.10000000E+05	.10000000E+01
26	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
31	.10000000E+01	.10000000E+01	.10000000E+01	.95000000E+00	.80000000E+00
36	.80000000E+00	.80000000E+00	.80000000E+00	.75000000E+00	.70000000E+00
41	.70000000E-01	.15000000E+00	.10000000E+00	.20000000E+00	.15000000E+00
46	.10000000E+00	.50000000E-01	.18000000E+00	.10000000E+01	.10000000E+01
51	.10000000E+01	.10000000E+01	.30000000E+01	.20000000E+01	.10000000E+01
56	.10000000E+01	.70000000E+00	.70000000E+00	.85000000E+00	.80000000E+00
61	.95000000E+00	.80000000E+00	.60000000E+00	.60000000E+00	.15000000E+05
66	.10000000E+05	.40000000E+05	0.	.10000000E+05	0.
71	.15000000E+05	.10000000E+05	.10000000E+01	.10000000E+01	.10000000E+01
76	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
81	.10000000E+01	.95000000E+00	.80000000E+00	.80000000E+00	.75000000E+00
86	.80000000E+00	.70000000E+00	.70000000E+00	.80000000E-01	.25000000E+00
91	.20000000E+00	.12000000E+00	.50000000E-01	.12000000E+00	.80000000E-01
96	.10000000E+00	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
101	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.70000000E+00
106	.70000000E+00	.85000000E+00	.70000000E+00	.75000000E+00	.60000000E+00
111	.60000000E+00	.60000000E+00	.15000000E+05	.10000000E+05	.40000000E+05
116	0.	.50000000E+04	0.	.15000000E+05	.10000000E+05
121	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
126	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.95000000E+00
131	.80000000E+00	.80000000E+00	.75000000E+00	.80000000E+00	.70000000E+00
136	.70000000E+00	.80000000E-01	.20000000E+00	.25000000E+00	.12000000E+00
141	.50000000E-01	.12000000E+00	.80000000E-01	.10000000E+00	.10000000E+01
146	.20000000E+01	.20000000E+01	.10000000E+01	.20000000E+01	.30000000E+01
151	.30000000E+01	.30000000E+01	.35500000E+00	.70000000E+00	.70000000E+00
156	.70000000E+00	.22000000E+01	.85000000E+00	.95000000E+00	.55000000E+00
161	0.	.30000000E+05	.30000000E+05	.25000000E+05	.50000000E+05
166	0.	0.	.10000000E+01	.10000000E+01	.10000000E+01
171	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
176	.10000000E+01	.10000000E+01	.86110000E+00	.86110000E+00	.10833000E+01

181	.69440000E+00	.86110000E+00	.69440000E+00	.75000000E+00	.10400000E+00
186	.65400000E-01	.61990000E+00	.40700000E-01	.26900000E-01	.10810000E+00
191	.23200000E-01	.11800000E-01	.10000000E+01	.10000000E+01	.10000000E+01
196	.20000000E+01	.20000000E+01	.20000000E+01	.20000000E+01	.20000000E+01
201	.60000000E+00	.60000000E+00	.40000000E+00	.75000000E+00	.75000000E+00
206	.65000000E+00	.47000000E+00	.45000000E+00	.20000000E+05	.20000000E+05
211	.50000000E+04	.40000000E+05	.40000000E+05	.20000000E+05	.10000000E+05
216	.10000000E+04	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
221	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.94000000E+00
226	.11000000E+01	.94000000E+00	.94000000E+00	.10600000E+01	.94000000E+00
231	.91000000E+00	.91000000E+00	.21850000E+00	.44000000E-02	.33200000E-01
236	.33410000E+00	.25500000E-01	.35400000E-01	.13500000E-01	.33540000E+00
241	.10000000E+01	.10000000E+01	.20000000E+01	.20000000E+01	.20000000E+01
246	.20000000E+01	.20000000E+01	.20000000E+01	.50000000E+00	.50000000E+00
251	.80000000E+00	.85000000E+00	.75000000E+00	.70000000E+00	.65000000E+00
256	.55000000E+00	.20000000E+05	.10000000E+05	.30000000E+05	.40000000E+05
261	.25000000E+05	.15000000E+05	.10000000E+05	.10000000E+04	.10000000E+01
266	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
271	.10000000E+01	.10000000E+01	.10000000E+01	.70000000E+00	.80000000E+00
276	.75000000E+00	.80000000E+00	.70000000E+00	.70000000E+00	.70000000E+00
281	.50000000E-01	.50000000E-01	.25000000E+00	.30000000E+00	.15000000E+00
286	.10000000E+00	.50000000E-01	.50000000E-01	0.	0.

*** LOADS ARRAY DF(340) - - RECORD 6 ***

1	.10000000E+02	.90000000E+01	.80000000E+01	.70000000E+01	.60000000E+01
6	.50000000E+01	.40000000E+01	.30000000E+01	.20000000E+01	.15000000E+01
11	.50000000E+00	0.	-.10000000E+01	-.20000000E+01	-.30000000E+01
16	-.40000000E+01	-.50000000E+01	-.60000000E+01	-.70000000E+01	-.80000000E+01
21	0.	0.	0.	.40000000E-01	.10000000E+01
26	.25000000E+02	.40000000E+03	.35000000E+04	.15000000E+05	.24000000E+05
41	0.	.10000000E+01	.15000000E+02	.20000000E+03	.15000000E+04
46	.10000000E+05	.40000000E+05	.10000000E+06	.17500000E+06	.21000000E+06
51	.10000000E+05	.35000000E+03	.70000000E+01	.10000000E+01	0.
61	.15000000E+02	.60000000E+02	.23000000E+03	.90000000E+03	.34000000E+04
66	.13000000E+05	.50000000E+05	.15000000E+06	.30000000E+06	.39000000E+06
71	.44000000E+05	.40000000E+04	.35000000E+03	.80000000E+01	.10000000E+00
81	0.	0.	.16000000E+02	.90000000E+02	.50000000E+03
86	.29000000E+04	.17000000E+05	.90000000E+05	.25000000E+06	.32000000E+06
91	.16000000E+05	.20000000E+04	.45000000E+02	.10000000E+00	0.
101	.60000000E+01	.55000000E+01	.50000000E+01	.45000000E+01	.40000000E+01
106	.35000000E+01	.30000000E+01	.25000000E+01	.20000000E+01	.15000000E+01
111	.50000000E+00	0.	-.50000000E+00	-.10000000E+01	-.15000000E+01
116	-.20000000E+01	-.25000000E+01	-.30000000E+01	-.35000000E+01	-.40000000E+01
121	0.	.50000000E+00	.30000000E+01	.18000000E+02	.70000000E+02
126	.25000000E+03	.80000000E+03	.25000000E+04	.92000000E+04	.31000000E+05
131	.10000000E+04	.35000000E+03	.10000000E+01	0.	0.
141	.38000000E+01	.35000000E+01	.32000000E+01	.29000000E+01	.26000000E+01
146	.23000000E+01	.20000000E+01	.17000000E+01	.14000000E+01	.11000000E+01
151	.90000000E+00	.60000000E+00	.30000000E+00	0.	-.30000000E+00
156	-.60000000E+00	-.90000000E+00	-.12000000E+01	-.15000000E+01	-.18000000E+01
161	0.	0.	.10000000E-01	.60000000E-01	.30000000E+00
166	.20000000E+01	.15000000E+02	.30000000E+03	.72000000E+04	.15000000E+06
171	.85000000E+05	.39000000E+04	.86000000E+02	.70000000E+01	.90000000E+00
176	.10000000E+00	.10000000E-01	0.	0.	0.
181	0.	0.	0.	.30000000E-02	.30000000E-01
186	.40000000E+00	.40000000E+01	.60000000E+02	.13000000E+04	.35000000E+05
191	.20000000E+05	.24000000E+03	.40000000E+01	.10000000E+00	.20000000E-02
201	0.	0.	.20000000E-01	.12000000E+00	.60000000E+00
206	.40000000E+01	.30000000E+02	.60000000E+03	.14400000E+05	.30000000E+06
211	.30000000E+06	.14400000E+05	.60000000E+03	.30000000E+02	.40000000E+01
216	.60000000E+00	.12000000E+00	.20000000E-01	0.	0.

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221   .38000000E+01   .35000000E+01   .32000000E+01   .29000000E+01   .26000000E+01
226   .23000000E+01   .20000000E+01   .17000000E+01   .14000000E+01   .11000000E+01
231   .90000000E+00   .60000000E+00   .30000000E+00   0.              -.30000000E+00
236  -.60000000E+00  -.90000000E+00  -.12000000E+01  -.15000000E+01  -.18000000E+01
241   0.              .50000000E-01   .12000000E+00   .25000000E+00   .50000000E+00
246   .18000000E+01   .10000000E+02   .13000000E+03   .15000000E+04   .10000000E+06
251   .30000000E+05   .10000000E+03   .50000000E+00   .20000000E-02   0.
261   0.              .20000000E-01   .50000000E-01   .11000000E+00   .25000000E+00
266   .54000000E+00   .20000000E+01   .16000000E+02   .30000000E+03   .10000000E+05
271   .50000000E+04   .30000000E+02   .10000000E+01   .30000000E-01   .10000000E-02
281   .38000000E+01   .35000000E+01   .32000000E+01   .29000000E+01   .26000000E+01
286   .23000000E+01   .20000000E+01   .17000000E+01   .14000000E+01   .11000000E+01
291   .90000000E+00   .60000000E+00   .30000000E+00   0.              -.30000000E+00
296  -.60000000E+00  -.90000000E+00  -.12000000E+01  -.15000000E+01  -.18000000E+01
301   0.              0.              .30000000E-01   .17000000E+00   .90000000E+00
306   .40000000E+01   .19000000E+02   .10500000E+03   .14700000E+04   .70000000E+05
311   .80000000E+04   .13600000E+03   .30000000E+00   .10000000E-02   0.
321   0.              0.              0.              0.              .30000000E-02
326   .50000000E-01   .10000000E+01   .25000000E+02   .82500000E+03   .30000000E+05
331   .19200000E+04   .22000000E+02   .15000000E+00   .10000000E-02   0.
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*** LOADS ARRAY DI(60) - - RECORD 7 ***

1	.19000000E+01	.18500000E+01	.18000000E+01	.17000000E+01	.16000000E+01
6	.15000000E+01	.14000000E+01	.13000000E+01	.12000000E+01	.11000000E+01
11	.90000000E+00	.80000000E+00	.70000000E+00	.60000000E+00	.50000000E+00
16	.40000000E+00	.30000000E+00	.20000000E+00	.15000000E+00	.10000000E+00
21	.40000000E-04	.20000000E-03	.10000000E-02	.30000000E-01	.90000000E+00
26	.20000000E+02	.45000000E+03	.90000000E+04	.86000000E+05	.33000000E+06
31	.33000000E+06	.86000000E+05	.90000000E+04	.45000000E+03	.20000000E+02
36	.90000000E+00	.30000000E-01	.10000000E-02	.20000000E-03	.40000000E-04
41	.80000000E-04	.40000000E-03	.20000000E-02	.60000000E-01	.18000000E+01
46	.40000000E+02	.90000000E+03	.18000000E+05	.17200000E+06	.66000000E+06
51	.66000000E+06	.17200000E+06	.18000000E+05	.90000000E+03	.40000000E+02
56	.18000000E+01	.60000000E-01	.20000000E-02	.40000000E-03	.80000000E-04

*** LOADS ARRAY DG(72) - - RECORD 8 ***

1	0.	.25000000E+03	.75000000E+03	.17500000E+04	.37500000E+04
6	.75000000E+04	.15000000E+05	.25000000E+05	.35000000E+05	.45000000E+05
11	.55000000E+05	.65000000E+05	.10000000E+01	.10000000E+01	.10000000E+01
16	.42000000E+00	.30000000E+00	.15000000E+00	.62000000E-01	.25000000E-01
21	.11000000E-01	.46000000E-02	.20000000E-02	.88000000E-03	.27000000E+01
26	.27000000E+01	.25100000E+01	.30200000E+01	.34200000E+01	.35900000E+01
31	.32700000E+01	.31500000E+01	.29300000E+01	.32800000E+01	.38200000E+01
36	.29300000E+01	.10000000E-04	.10000000E-04	.50000000E-02	.33000000E-02
41	.20000000E-02	.95000000E-03	.28000000E-03	.11000000E-03	.95000000E-04
46	.11500000E-03	.78000000E-04	.57000000E-04	.10650000E+02	.10650000E+02
51	.50400000E+01	.59400000E+01	.81700000E+01	.92200000E+01	.10520000E+02
56	.11880000E+02	.98400000E+01	.88100000E+01	.70400000E+01	.43300000E+01
61	.50000000E+03	.50000000E+03	.50000000E+03	.17500000E+04	.25000000E+04
66	.25000000E+04	.25000000E+04	.25000000E+04	.25000000E+04	.25000000E+04
71	.25000000E+04	.25000000E+04	0.	0.	0.

*** LOADS ARRAY DR(109) - - RECORD 9 ***

1	.50000000E+01	.10000000E+02	.20000000E+02	.30000000E+02	.40000000E+02
6	.60000000E+02	.10000000E+03	.14000000E+03	.20000000E+03	.30000000E+03
11	.20000000E-02	.40000000E-02	.60000000E-02	.10000000E-01	.15000000E-01
16	.20000000E-01	.40000000E-01	.60000000E-01	.10000000E+00	.13000000E+00
21	.20000000E+00	.27000000E+00	.32000000E+00	.34000000E+00	.41000000E+00
26	.50000000E+00	.55000000E+00	.62000000E+00	.68500000E+00	.18000000E+00
31	.25000000E+00	.34000000E+00	.40000000E+00	.44000000E+00	.51000000E+00
36	.60000000E+00	.65000000E+00	.71500000E+00	.77000000E+00	.21000000E+00
41	.29000000E+00	.38000000E+00	.45000000E+00	.50000000E+00	.56500000E+00
46	.65500000E+00	.71000000E+00	.76000000E+00	.80500000E+00	.24000000E+00
51	.34000000E+00	.44000000E+00	.51500000E+00	.56500000E+00	.63200000E+00
56	.71200000E+00	.76000000E+00	.80000000E+00	.83600000E+00	.27000000E+00
61	.38000000E+00	.49000000E+00	.56500000E+00	.61500000E+00	.67600000E+00
66	.74500000E+00	.78200000E+00	.81700000E+00	.84500000E+00	.30000000E+00
71	.41500000E+00	.52500000E+00	.59500000E+00	.64300000E+00	.70000000E+00
76	.76200000E+00	.79000000E+00	.82000000E+00	.84300000E+00	.35000000E+00
81	.48000000E+00	.59000000E+00	.64000000E+00	.69000000E+00	.73500000E+00
86	.77200000E+00	.79000000E+00	.80500000E+00	.82000000E+00	.39000000E+00
91	.52000000E+00	.61000000E+00	.66000000E+00	.69500000E+00	.73000000E+00
96	.76000000E+00	.77000000E+00	.78500000E+00	.79000000E+00	.43000000E+00
101	.55000000E+00	.62500000E+00	.66000000E+00	.68000000E+00	.70800000E+00
106	.72500000E+00	.73500000E+00	.74200000E+00	.74700000E+00	0.

*** PERMANENT DATA FOR WING - - RECORD 23 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415920E+01
16	.17453287E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.15000000E+01	.10500000E+01	.75000000E+00
26	.35500000E+00	.12500000E+00	.42920000E+00	.75000000E+00	.10000000E-02
31	.10100000E+01	.60000000E-01	.10000000E+02	.10000000E-01	.45000000E-01
36	.95000000E+00	.99500000E+00	.90000000E+00	.10000000E+00	.15000000E+01
41	.50000000E+00	.50000000E+00	.25000000E+00	.75000000E+00	.83000000E+00
46	.17000000E+00	.50000000E+01	.16000000E+02	.20000000E+01	.25000000E+00
51	.66666667E+00	.20000000E-02	.13333300E+01	.78539800E+00	.50000000E+00
56	.15000000E+01	.25000000E+00	.25000000E+00	.75000000E+00	.15000000E+01
61	.15600000E+00	.13333000E+01	.12500000E+01	.10000000E-03	.50000000E+02
66	.25000000E+02	.50000000E+00	.70000000E+00	.10750000E+01	.65600000E+00
71	.10300000E+01	.91100000E+00	.50000000E-01	.50000000E+00	.60000000E+01
76	.20000000E+01	.25000000E+01	.17386830E+02	.50000000E+00	0.
106	0.	0.	0.	0.	.10000000E+01
111	.70000000E+00	.30000000E+00	.72500000E+00	.66667000E+00	.10000000E+01
116	.60000000E+00	.98500000E+00	0.	0.	0.
121	0.	.15000000E+01	0.	.92000000E+00	.15000000E+00
126	.60000000E+00	.40000000E+00	0.	.10000000E+01	.49369022E-01
131	-.14187151E+00	-.12342674E+00	.47136354E+00	.40410000E+00	.15000000E+00
136	.60000000E+00	.40000000E+00	.25000000E+00	.97500000E+00	0.
141	0.	.10000000E+01	.20000000E+01	0.	0.
151	0.	0.	.20000000E+02	0.	.10000000E+01
156	.15000000E+01	.55000000E+01	0.	.10000000E+01	.10000000E+01
161	.10000000E+01	.10000000E+01	.20000000E+01	.20000000E+01	.20000000E+01
166	.20000000E+01	0.	0.	0.	0.
176	.10000000E+04	0.	0.	0.	0.
186	.10000000E+01	0.	0.	.85000000E+00	.10000000E+01
191	.10000000E+01	.98383560E+01	.72665000E+00	.44000000E+01	0.
206	0.	0.	.26000000E-01	0.	0.
211	.22300000E-01	0.	0.	0.	.26000000E-01
216	0.	0.	.22300000E-01	0.	0.
231	0.	.80000000E+00	.10000000E+01	.10000000E+01	0.
246	0.	0.	0.	0.	.10000000E+01

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251    0.                  .11500000E+01   0.                  0.                  0.
256    0.                  .40000000E+00   0.                  0.                  0.
306    0.                  0.              0.                  .11500000E+01       0.
311    0.                  .10000000E+01   .90000000E+00       .10000000E+01       .99000000E+00
316     .10000000E-02      0.              .10000000E+01       0.                  0.
361     .20000000E+01      .40000000E+01   .42600000E+00       .40000000E+01       .60000000E+00
366     .75000000E+00      .10000000E+01   .10000000E+01       .30000000E+01       .40000000E-01
371     .40000000E-01      .40000000E-01   .45000000E-01       .45000000E-01       .10000000E+02
376     .30000000E+02      .75000000E+00   .20000000E+01       .10000000E+01       .10000000E+01
381     .10000000E+02      .40000000E+01   0.                  .40000000E+00       .10000000E+01
386     .10000000E+01      .10000000E+01   .10000000E+01       0.                  0.
391     .91100000E+00      .60000000E+00   0.                  0.                  0.
396     .31250000E+00      .50000000E-01   .10000000E+01       0.                  .12100000E+01
401     .40000000E+00      .14250000E+01   .50000000E+00       .10000000E+01       .20000000E+01
406     .20000000E-01      .10000000E+01   .59000000E+00       .31200000E+00       .10250000E+01
411     .10250000E+01      .97500000E+00   .97500000E+00       0.                  0.
416     0.                  0.             .87500000E+00       .87500000E+00       .60000000E+01
421     .60000000E+01      .20000000E-01   .17500000E+01       .20000000E+01       .10500000E+01
426     .10500000E+01      0.              0.                  0.                  0.
446     0.                  0.             0.                  0.                  .10000000E+01
451     .10000000E+01      .10000000E+01   .10000000E+01       .10000000E+01       .50000000E+00
456     .50000000E+00      .10000000E+01   .10000000E+01       .10000000E+01       .10000000E+01
476     0.                  0.             0.                  0.                  .10000000E+01
481     .10000000E+01      .10000000E+01   .10000000E+01       .10000000E+01       .10000000E+01
486     .10000000E+01      .10000000E+01   .10000000E+01       .10000000E+01       .10000000E+01
491     .10000000E+01      .10000000E+01   .10000000E+01       .10000000E+01       .10000000E+01
496     .10000000E+01      .10000000E+01   .10000000E+01       .10000000E+01       .10000000E+01
501     .10000000E+01      .10000000E+01   .10000000E+01       .10000000E+01       .10000000E+01
516     0.                  0.             0.                  0.                  .10000000E+01
521     0.                  .10000000E+01  .10000000E+01       .10000000E+01       .10000000E+01
526     .14131250E+03      .78200000E+02   .25000000E-04       0.                  .10000000E+01
531     .10000000E+01      .10000000E+01   .10000000E+01       .10000000E+01       .10000000E+01
536     .10000000E-01      0.              0.                  0.                  0.
551     .10000000E+00      .20000000E+00   .30000000E+00       .40000000E+00       .50000000E+00
556     .60000000E+00      .70000000E+00   .80000000E+00       .90000000E+00       .10000000E+01
561     .42500000E+01      .45000000E+01   .46700000E+01       .48600000E+01       .50800000E+01
566     .53500000E+01      .56900000E+01   .61000000E+01       .65800000E+01       .71500000E+01
571     .77500000E+01      .50000000E-01   .10000000E+03       0.                  0.
596    0.                  0.              0.                  0.                  .10000000E+01
```

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 601    .10000000E+01    .10000000E+01    .25000000E-01    .10750000E+01    .10750000E+01
 606    .10750000E+01    .11000000E+01    .11000000E+01    .11000000E+01    .17500000E+01
 611    .20000000E+01    .17500000E+01    .12500000E+01    .12500000E+01    .12500000E+01
 616    .11000000E+01    .11500000E+01    .11500000E+01    .11500000E+01    .11000000E+01
 621    .11500000E+01    .11500000E+01    .11500000E+01    .15000000E+01    .75000000E+00
 626    .11500000E+01    .11500000E+01    0.               0.               0.
 636    0.               0.               0.               .10000000E+01    .10000000E+01
 641    .10000000E+01    .10000000E+01    .10000000E+01    .10000000E+01    .10000000E+01
 646    .10000000E+01    .10000000E+01    .10000000E+01    .10000000E+01    0.
 841    0.               .10500000E+01    .10500000F+01    .10500000E+01    .10500000E+01
 846    .10500000E+01    .10500000E+01    .10500000F+01    .10500000E+01    .10500000E+01
 851    .10500000E+01    .10500000E+01    .12000000F+01    .12000000E+01    .12000000E+01
 856    .12000000E+01    .12000000E+01    .12000000E+01    .12000000E+01    .12000000E+01
 861    .12000000E+01    .12000000E+01    .12000000E+01    0.               0.
 931    .11750000E+01    .11500000E+01    .11250000F+01    .11100000E+01    .11000000E+01
 936    .10900000E+01    .10800000E+01    .10700000E+01    .10600000E+01    .10500000E+01
 941    .10400000E+01    .10750000E+01    .10450000E+01    .10550000E+01    .10450000E+01
 946    .10350000E+01    .10250000E+01    .10150000E+01    .10050000E+01    .99500000E+00
 951    .98500000E+00    .97500000E+00    0.               0.               0.
1006    0.               0.               .10000000E+01    .10000000E+01    .10000000E+01
1011    .10000000E+01    .10000000E+01    .10000000E+01    .10000000E+01    .10000000E+01
1016    .10000000E+01    .10000000E+01    .10000000E+01    0.               0.
1141    0.               0.               .15000000E+02    .20000000E+02    .20000000E+02
1146    .60000000E+01    .40000000E+01    .40000000E+01    .15000000E+02    .20000000E+02
1151    .20000000E+02    .60000000F+01    .40000000F+01    .40000000E+01    0.
1206    .10000000E+01    .80000000E+01    .15000000E+01    .77000000E-03    .80000000E+00
1211    .83000000E+00    .10000000E+00    .25000000E+00    .10000000E+00    0.
1216    .10000000E+01    .80000000E+01    .17500000E+01    .40000000E-03    .80000000E+00
1221    .54000000E+00    .10000000E+00    .25000000E+00    .10000000E+00    0.
1226    .10000000E+01    .80000000E+01    .15000000E+01    .40000000E-03    .80000000E+00
1231    .54000000E+00    .10000000E+00    .25000000E+00    .10000000E+00    0.
1236    .10000000E+01    .10000000E-01    .10000000E+01    .35000000E+00    .16500000E-01
1241    .14500000E+01    .10000000E+01    .70000000F+00    .95000000E+03    .10000000E+01
1246    0.               .10000000E+00    .25000000E+00    .10000000E+00    0.
1251    .10000000E+01    .10000000E-01    .10000000F+01    .35000000E+00    .14500000E-01
1256    .13500000E+01    .75000000E+00    .70000000F+00    .95000000E+03    .10000000E+01
1261    0.               .10000000E+00    .25000000E+00    .10000000E+00    0.
1266    .10000000E+01    .10000000E-01    .10000000E+01    .35000000E+00    .14500000E-01
1271    .13500000E+01    .75000000E+00    .70000000E+00    .95000000E+03    .10000000E+01
1276    0.               .10000000E+00    .25000000E+00    .10000000E+00    0.
```

1281	.10000000E+01	.10000000E+01	.20000000E+01	.20000000E+01	.20000000E+01
1286	.20000000E+01	.20000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
1291	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	0.
1366	.60000000E+01	.60000000E+01	.12000000E+02	.20000000E+01	.10000000E+01
1371	.30000000E+01	.50000000E+01	.50000000E+00	.25000000E+00	.40000000E+01
1376	.12000000E+02	.20000000E+01	.10000000E+01	.60000000E+01	.12000000E+02
1381	.20000000E+01	.10000000E+01	.40000000E+01	.80000000E+01	.20000000E+01
1386	.10000000E+01	.30000000E+01	.60000000E+01	.50000000E+00	.25000000E+00
1391	.30000000E+01	.50000000E+01	.50000000E+00	.25000000E+00	.30000000E+01
1396	.40000000E+01	.50000000E+00	.25000000E+00	.20000000E+01	0.
1401	.592079 00E+00	.442763 00E-04	0.	.10000000E+01	.35332000E+05
1406	.97110000E+03	.20786000E+05	.30570000E+00	.42561000E+01	.68750000E-05
1411	.41023570E-02	.11171853E+04	.10000000E-08	.10000000E+01	.10000000E-01
1416	.10000000E+01	0.	0.	0.	0.
1431	0.	-.11160000E+01	.14800000E+04	.22500000E+02	.80000000E+00
1436	.40000000E+00	.70000000E+00	.98481000E+00	.17365000E+00	.14814815E+00
1441	.10000000E+01	.10000000E-04	0.	0.	0.
1456	0.	0.	0.	0.	.10010000E+01
1461	.99900000E+00	0.	0.	0.	0.
1466	0.	0.	0.	0.	.60000000E+00
1471	.13000000E+01	.15600000E+00	.10000000E+01	.10000000E+01	.18800000E+00
1476	.25000000E+00	.37500000E+00	.50000000E+00	.80000000E-01	.15600000E+00
1481	.12100000E+01	.13750000E+01	.10500000E+01	.40000000E+01	.37500000E+00
1486	.10000000E+01	.12500000E+00	.13300000E+01	.17500000E+01	.50000000E+00
1491	.25000000E+01	.10000000E+01	.10000000E+01	.20000000E+01	.13000000E+06
1496	.28800000E+00	.45000000E+01	0.	0.	0.
1526	0.	0.	0.	0.	.10000000E+01
1531	.14500000E+00	.10000000E+01	.55100000E+00	.32000000E+00	.10000000E+01
1536	.60000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1541	.10000000E-01	.10000000E+01	.12500000E+00	.10000000E+01	.45000000E+00
1546	.15000000E+01	.10000000E+01	.41300000E+00	.32000000E+00	.66700000E+00
1551	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1556	.10000000E-01	.75000000E+00	.12500000E+00	.10000000E+01	.10000000E+01
1561	.90000000E+01	.17250000E+01	.77000000E-03	.80000000E+00	.33000000E+00
1566	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1571	.10000000E-01	.50000000E+00	.12500000E+00	.10000000E+01	.83000000E+00
1731	.10000000E+01	.80000000E-02	.80000000E+00	.19500000E+01	.10000000E+00
1736	.25000000E+00	.10000000E+00	.10000000E-01	.10000000E+01	.12500000E+00
1741	.10000000E+01	.45000000E+00	.15000000E+00	0.	.10000000E-02

1746	.69000000E+00	.14400000E+02	.25000000E+00	0.	.10000000E+01
1751	.12500000E+01	.15000000E+01	.17500000E+01	.10000000E+00	.25000000E+00
1756	.10000000E+00	.10000000E-01	.25000000E+00	.12500000E+00	.10000000E+01
1761	.25000000E+00	.12500000E+00	0.	0.	0.
1766	.10000000E+01	.18250000E-01	.35000000E+00	.15500000E+01	.50000000E+00
1771	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00	.10000000E-01
1776	.10000000E+00	.12500000E+00	.10000000E+01	.10000000E+00	.50000000E-01
1781	0.	0.	0.	0.	.14000000E+01
1786	.77300000E+00	.35000000E+00	.30690000E+00	0.	.15000000E+01
1791	.24420000E-01	.35000000E+00	.13602700E+01	0.	.10000000E+00
1796	.28000000E+00	.40000000E+00	.55000000E+00	.10000000E+00	.10000000E+00
1801	.10000000E+00	.10000000E+00	.15000000E+00	.20000000E+00	.20000000E+00
1806	.10000000E+00	.10000000E+00	.10000000E+00	.47500000E+00	.40000000E+00
1811	.30000000E+00	.25000000E+00	.47500000E+00	.47500000E+00	.47500000E+00
1936	0.	0.	0.	.75000000E+00	.75000000E+00
1941	.75000000E+00	.10000000E+01	.75000000E+00	.10000000E+01	.10000000E+01
1946	.10000000E+01	.10000000E+01	.50000000E+00	.10000000E+04	.30000000E+01
1951	.25000000E+01	.15000000E+01	.12500000E+01	0.	0.
1956	.10000000E+01	.77000000E-03	.80000000E+00	.83000000E+00	.50000000E+00
1961	0.	.10000000E+00	.25000000E+00	.10000000E+00	0.
1966	0.	0.	0.	0.	.11550000E+00
1971	.53300000E-01	.53300000E-01	.68700000E-01	.53300000E-01	.50000000E-01
1976	.40000000E-01	.50000000E-01	.75000000E+00	.80000000E+00	.45000000E+00
1981	.80000000E+00	0.	0.	0.	0.

*** PERMANENT DATA FOR HORIZONTAL TAIL - - RECORD 26 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415920E+01
16	.17453287E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.15000000E+01	.10500000E+01	.75000000E+00
26	.35500000E+00	.12500000E+00	.42920000E+00	.75000000E+00	.10000000E-02
31	.10100000E+01	.60000000E-01	.10000000E+02	.10000000E-01	.45000000E-01
36	.95000000E+00	.94500000E+00	.90000000E+00	.10000000E+00	.15000000E+01
41	.50000000E+00	.50000000E+00	.25000000E+00	.75000000E+00	.83000000E+00
46	.17000000E+00	.50000000E+01	.16000000E+02	.20000000E+01	.25000000E+00
51	.66666667E+00	.20000000E-02	.13333300E+01	.78539800E+00	.50000000E+00
56	.15000000E+01	.25000000E+00	.25000000E+00	.75000000E+00	.15000000E+01
61	.15600000E+00	.13333000E+01	.12500000E+01	.10000000E-03	.50000000E+02
66	.25000000E+02	.50000000E+00	.70000000E+00	.10750000E+01	.65600000E+00
71	.10300000E+01	.91100000E+00	.50000000E-01	.50000000E+00	.60000000E+01
76	.20000000E+01	.25000000E+01	.17386830E+02	.50000000E+00	0.
106	0.	0.	0.	0.	.10000000E+01
111	.70000000E+00	.30000000E+00	.72500000E+00	.66667000E+00	.10000000E+01
116	.60000000E+00	.98500000E+00	0.	0.	0.
121	0.	.15000000E+01	0.	.92000000E+00	.15000000E+00
126	.60000000E+00	.40000000E+00	0.	.10000000E+01	.49369022E-01
131	-.14187151E+00	-.12342674E+00	.47136354E+00	.40410000E+00	.15000000E+00
136	.60000000E+00	.40000000E+00	.25000000E+00	.97500000E+00	0.
141	0.	.10000000E+01	.20000000E+01	0.	0.
151	0.	0.	.20000000E+02	0.	.10000000E+01
156	.15000000E+01	.55000000E+01	0.	.10000000E+01	.10000000E+01
161	.10000000E+01	.10000000E+01	.20000000E+01	.20000000E+01	.20000000E+01
166	.20000000E+01	0.	0.	0.	0.
176	.10000000E+04	0.	0.	0.	0.
186	.10000000E+01	0.	0.	.85000000E+00	.10000000E+01
191	.10000000E+01	.98383560E+01	.72665000E+00	.44000000E+01	0.
206	0.	0.	.26000000E-01	0.	0.
211	.22300000E-01	0.	0.	0.	.26000000E-01
216	0.	0.	.22300000E-01	0.	0.
231	0.	.80000000E+00	.10000000E+01	.10000000E+01	0.
246	0.	0.	0.	0.	.10000000E+01

251	0.	.11500000E+01	0.	0.	0.
256	0.	.40000000E+00	0.	0.	0.
286	0.	0.	0.	-.10000000E+01	0.
306	0.	0.	0.	.11500000E+01	0.
311	0.	.10000000E+01	.90000000E+00	.10000000E+01	.99000000E+00
316	.10000000E-02	0.	.10000000E+01	0.	0.
361	.20000000E+01	.40000000E+01	.42600000E+00	.40000000E+01	.60000000E+00
366	.75000000E+00	.10000000E+01	.10000000E+01	.30000000E+01	.40000000E-01
371	.40000000E-01	.40000000E-01	.45000000E-01	.45000000E-01	.10000000E+02
376	.30000000E+02	.75000000E+00	.20000000E+01	.10000000E+01	.10000000E+01
381	.10000000E+02	.40000000E+01	0.	.40000000E+00	.10000000E+01
386	.10000000E+01	.10000000E+01	.10000000E+01	0.	0.
391	.91100000E+00	.60000000E+00	0.	0.	0.
396	.31250000E+00	.50000000E-01	.10000000E+01	0.	.12100000E+01
401	.40000000E+00	.14250000E+01	.50000000E+00	.10000000E+01	.20000000E+01
406	.20000000E-01	.10000000E+01	.59000000E+00	.31200000E+00	.10250000E+01
411	.10250000E+01	.97500000E+00	.97500000E+00	0.	0.
416	0.	0.	.87500000E+00	.87500000E+00	.60000000E+01
421	.60000000E+01	.20000000E-01	.17500000E+01	.20000000E+01	.10500000E+01
426	.10500000E+01	0.	0.	0.	0.
446	0.	0.	0.	0.	.10000000E+01
451	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.50000000E+00
456	.50000000E+00	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
476	0.	0.	0.	0.	.10000000E+01
481	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
486	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
491	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
496	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
501	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
516	0.	0.	0.	0.	.10000000E+01
521	0.	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
526	.14131250E+03	.78200000E+02	.25000000E-04	0.	.10000000E+01
531	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
536	.10000000E-01	0.	0.	0.	0.
551	.10000000E+00	.20000000E+00	.30000000E+00	.40000000E+00	.50000000E+00
556	.60000000E+00	.70000000E+00	.80000000E+00	.90000000E+00	.10000000E+01
561	.42500000E+01	.45000000E+01	.46700000E+01	.48600000E+01	.50800000E+01
566	.53500000E+01	.56900000E+01	.61000000E+01	.65800000E+01	.71500000E+01
571	.77500000E+01	.50000000E-01	.10000000E+03	0.	0.

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 596    0.                      0.                      0.                      0.                      .10000000E+01
 601     .10000000E+01           .10000000E+01           .20000000E-01           .10750000E+01           .10750000E+01
 606     .10750000E+01           .10800000E+01           .10800000E+01           .10800000E+01           .17500000E+01
 611     .20000000E+01           .17500000E+01           .12500000E+01           .12500000E+01           .12500000E+01
 616     .11000000E+01           .11500000E+01           .11500000E+01           .11500000E+01           .11000000E+01
 621     .11500000E+01           .11500000E+01           .11500000E+01           .11000000E+01           .75000000E+00
 626     .11500000E+01           .11500000E+01           0.                      0.                      0.
 636    0.                      0.                      0.                       .10000000E+01           .10000000E+01
 641     .10000000E+01           .10000000E+01           .10000000E+01           .10000000E+01           .10000000E+01
 646     .10000000E+01           .10000000E+01           .10000000E+01           .10000000E+01           0.
 841    0.                       .10500000E+01           .10500000E+01           .10500000E+01           .10500000E+01
 846     .10500000E+01           .10500000E+01           .10500000E+01           .10500000E+01           .10500000E+01
 851     .10500000E+01           .10500000E+01           .12000000E+01           .12000000E+01           .12000000E+01
 856     .12000000E+01           .12000000E+01           .12000000E+01           .12000000E+01           .12000000E+01
 861     .12000000E+01           .12000000E+01           .12000000E+01           0.                      0.
 931     .11750000E+01           .11500000E+01           .11250000E+01           .11100000E+01           .11000000E+01
 936     .10900000E+01           .10800000E+01           .10700000E+01           .10600000E+01           .10500000E+01
 941     .10400000E+01           .10750000E+01           .10650000E+01           .10550000E+01           .10450000E+01
 946     .10350000E+01           .10250000E+01           .10150000E+01           .10050000E+01           .99500000E+00
 951     .98500000E+00           .97500000E+00           0.                      0.                      0.
1006    0.                      0.                       .10000000E+01           .10000000E+01           .10000000E+01
1011     .10000000E+01           .10000000E+01           .10000000E+01           .10000000E+01           .10000000E+01
1016     .10000000E+01           .10000000E+01           .10000000E+01           0.                      0.
1141    0.                      0.                       .15000000E+02           .20000000E+02           .20000000E+02
1146     .60000000E+01           .40000000E+01           .40000000E+01           .15000000E+02           .20000000E+02
1151     .20000000E+02           .60000000E+01           .40000000E+01           .40000000E+01           0.
1206     .10000000E+01           .80000000E+01           .15000000E+01           .77000000E-03           .80000000E+00
1211     .83000000E+00           .10000000E+00           .25000000E+00           .10000000E+00           0.
1216     .10000000E+01           .80000000E+01           .17500000E+01           .40000000E-03           .80000000E+00
1221     .54000000E+00           .10000000E+00           .25000000E+00           .10000000E+00           0.
1226     .10000000E+01           .80000000E+01           .15000000E+01           .40000000E-03           .80000000E+00
1231     .54000000E+00           .10000000E+00           .25000000E+00           .10000000E+00           0.
1236     .10000000E+01           .10000000E-01           .10000000E+01           .35000000E+00           .16500000E-01
1241     .14500000E+01           .10000000E+01           .70000000E+00           .95000000E+03           .10000000E+01
1246    0.                       .10000000E+00           .25000000E+00           .10000000E+00           0.
1251     .10000000E+01           .10000000E-01           .10000000E+01           .35000000E+00           .14500000E-01
1256     .13500000E+01           .75000000E+00           .70000000E+00           .95000000E+03           .10000000E+01
1261    0.                       .10000000E+00           .25000000E+00           .10000000E+00           0.
1266     .10000000E+01           .10000000E-01           .10000000E+01           .35000000E+00           .14500000E-01
1271     .13500000E+01           .75000000E+00           .70000000E+00           .95000000E+03           .10000000E+01
```

1276	0.	.10000000E+00	.25000000E+00	.10000000E+00	0.
1281	.10000000E+01	.10000000E+01	.20000000E+01	.20000000E+01	.20000000E+01
1286	.20000000E+01	.20000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
1291	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	0.
1366	.60000000E+01	.60000000E+01	.12000000E+02	.20000000E+01	.10000000E+01
1371	.30000000E+01	.50000000E+01	.50000000E+00	.25000000E+00	.40000000E+01
1376	.12000000E+02	.20000000E+01	.10000000E+01	.60000000E+01	.12000000E+02
1381	.20000000E+01	.10000000E+01	.40000000E+01	.80000000E+01	.20000000E+01
1386	.10000000E+01	.30000000E+01	.60000000E+01	.50000000E+00	.25000000E+00
1391	.30000000E+01	.50000000E+01	.50000000E+00	.25000000E+00	.30000000E+01
1396	.40000000E+01	.50000000E+00	.25000000E+00	.20000000E+01	0.
1401	.59207900E+00	.44276300E-04	0.	.10000000E+01	.35332000E+05
1406	.97110000E+03	.20786000E+05	.30570000E+00	.42561000E+01	.68750000E-05
1411	.41023570E-02	.11171853E+04	.10000000E-08	.10000000E+01	.10000000E-01
1416	.10000000E+01	0.	0.	0.	0.
1431	0.	-.11160000E+01	.14800000E+04	.22500000E+02	.80000000E+00
1436	.40000000E+00	.70000000E+00	.98481000E+00	.17365000E+00	.14814815E+00
1441	.10000000E+01	.10000000E-04	0.	0.	0.
1456	0.	0.	0.	0.	.10010000E+01
1461	.99900000E+00	0.	0.	0.	0.
1466	0.	0.	0.	0.	.60000000E+00
1471	.13000000E+01	.15600000E+00	.10000000E+01	.10000000E+01	.18800000E+00
1476	.25000000E+00	.37500000E+00	.50000000E+00	.80000000E-01	.15600000E+00
1481	.12100000E+01	.13750000E+01	.10500000E+01	.40000000E+01	.37500000E+00
1486	.10000000E+01	.12500000E+00	.13300000E+01	.17500000E+01	.50000000E+00
1491	.25000000E+01	.10000000E+01	.10000000E+01	.20000000E+01	.13000000E+06
1496	.28800000E+00	.45000000E+01	0.	0.	0.
1526	0.	0.	0.	0.	.10000000E+01
1531	.14500000E+00	.10000000E+01	.55100000E+00	.32000000E+00	.10000000E+01
1536	.86000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1541	.10000000E-01	.10000000E+01	.12500000E+00	.10000000E+01	.45000000E+00
1546	.15000000E+01	.10000000E+01	.41300000E+00	.32000000E+00	.66700000E+00
1551	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1556	.10000000E-01	.75000000E+00	.12500000E+00	.10000000E+01	.10000000E+01
1561	.90000000E+01	.17250000E+01	.77000000E-03	.80000000E+00	.33000000E+00
1566	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1571	.10000000E-01	.50000000E+00	.12500000E+00	.10000000E+01	.83000000E+00
1731	.10000000E+01	.80000000E-02	.80000000E+00	.19500000E+01	.10000000E+00
1736	.25000000E+00	.10000000E+00	.10000000E-01	.10000000E+01	.12500000E+00

1741	•10000000E•01	•45000000E•00	•15000000E•00	0•	•10000000E-02
1746	•69000000E•00	•14400000E•02	•25000000E•00	0•	•10000000E•01
1751	•12500000E•01	•15000000E•01	•17500000E•01	•10000000E•00	•25000000E•00
1756	•10000000E•00	•10000000E-01	•25000000E•00	•12500000E•00	•10000000E•01
1761	•25000000E•00	•12500000E•00	0•	0•	0•
1766	•10000000E•01	•18250000E-01	•35000000E•00	•15500000E•01	•50000000E•00
1771	•25000000E•00	•10000000E•00	•25000000E•00	•10000000E•00	•10000000E-01
1776	•10000000E•00	•12500000E•00	•10000000E•01	•10000000E•00	•50000000E-01
1781	0•	0•	0•	0•	•14000000E•01
1786	•77300000E•00	•35000000E•00	•30690000E•00	0•	•15000000E•01
1791	•24420000E-01	•35000000E•00	•13602700E•01	0•	•10000000E•00
1796	•28000000E•00	•40000000E•00	•55000000E•00	•10000000E•00	•10000000E•00
1801	•10000000E•00	•10000000E•00	•15000000E•00	•20000000E•00	•20000000E•00
1806	•10000000E•00	•10000000E•00	•10000000E•00	•47500000E•00	•40000000E•00
1811	•30000000E•00	•25000000E•00	•47500000E•00	•47500000E•00	•47500000E•00
1936	0•	0•	0•	•75000000E•00	•75000000E•00
1941	•75000000E•00	•10000000E•01	•75000000E•00	•10000000E•01	•10000000E•01
1946	•10000000E•01	•10000000E•01	•50000000E•00	•10000000E•04	•30000000E•01
1951	•25000000E•01	•15000000E•01	•12500000E•01	0•	0•
1956	•10000000E•01	•77000000E-03	•80000000E•00	•83000000E•00	•50000000E•00
1961	0•	•10000000E•00	•25000000E•00	•10000000E•00	0•
1966	0•	0•	0•	0•	•11550000E•00
1971	•53300000E-01	•53300000E-01	•68700000E-01	•53300000E-01	•50000000E-01
1976	•40000000E-01	•50000000E-01	•75000000E•00	•80000000E•00	•45000000E•00
1981	•80000000E•00	0•	0•	0•	0•

*** PERMANENT DATA FOR VERTICAL TAIL - - RECORD 27 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415920E+01
16	.17453287E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.15000000E+01	.10500000E+01	.75000000E+00
26	.35500000E+00	.12500000E+00	.42920000E+00	.75000000E+00	.10000000E-02
31	.10100000E+01	.60000000E-01	.10000000E+02	.10000000E-01	.45000000E-01
36	.95000000E+00	.99500000E+00	.90000000E+00	.10000000E+00	.15000000E+01
41	.50000000E+00	.50000000E+00	.25000000E+00	.75000000E+00	.83000000E+00
46	.17000000E+00	.50000000E+01	.16000000E+02	.20000000E+01	.25000000E+00
51	.66666667E+00	.20000000E-02	.13333300F+01	.78539800E+00	.50000000E+00
56	.15000000E+01	.25000000E+00	.25000000E+00	.75000000E+00	.15000000E+01
61	.15600000E+00	.13333000E+01	.12500000E+01	.10000000E-03	.50000000E+02
66	.25000000E+02	.50000000E+00	.70000000E+00	.10750000E+01	.65600000E+00
71	.10300000E+01	.91100000E+00	.50000000E-01	.50000000E+00	.60000000E+01
76	.20000000E+01	.25000000E+01	.17386830E+02	.50000000E+00	0.
106	0.	0.	0.	0.	.10000000E+01
111	.70000000E+00	.30000000E+00	.72500000E+00	.66667000E+00	.10000000E+01
116	.60000000E+00	.98500000E+00	0.	0.	0.
121	0.	.15000000E+01	0.	.92000000E+00	.15000000E+00
126	.60000000E+00	.40000000E+00	0.	.10000000E+01	.49369022E-01
131	-.14187151E+00	-.12342674E+00	.47136354E+00	.40410000E+00	.15000000E+00
136	.60000000E+00	.40000000E+00	.25000000E+00	.97500000E+00	0.
141	0.	.10000000E+01	.20000000E+01	0.	0.
151	0.	0.	.20000000E+02	0.	.10000000E+01
156	.15000000E+01	.55000000E+01	0.	.10000000E+01	.10000000E+01
161	.10000000E+01	.10000000E+01	.20000000E+01	.20000000E+01	.20000000E+01
166	.20000000E+01	0.	0.	0.	0.
176	.10000000E+04	0.	0.	0.	0.
186	.10000000E+01	0.	0.	.85000000E+00	.10000000E+01
191	.10000000E+01	.98383560E+01	.72665000E+00	.44000000E+01	0.
206	0.	0.	.26000000E-01	0.	0.
211	.22300000F-01	0.	0.	0.	.26000000E-01
216	0.	0.	.22300000E-01	0.	0.
231	0.	.80000000E+00	.10000000E+01	.10000000E+01	0.
246	0.	0.	0.	0.	.10000000E+01

251	0.	.11500000E+01	0.	0.	0.
256	0.	.40000000E+00	0.	0.	0.
286	0.	0.	0.	.10000000E+01	0.
306	0.	0.	0.	.11500000E+01	0.
311	0.	.10000000E+01	.90000000E+00	.10000000E+01	.99000000E+00
316	.10000000E-02	0.	.10000000E+01	0.	0.
361	.20000000E+01	.40000000E+01	.42500000E+00	.40000000E+01	.60000000E+00
366	.75000000E+00	.10000000E+01	.10000000E+01	.30000000E+01	.40000000E-01
371	.40000000E-01	.40000000E-01	.45000000E-01	.45000000E-01	.10000000E+02
376	.30000000E+02	.75000000E+00	.20000000E+01	.10000000E+01	.10000000E+01
381	.10000000E+02	.40000000E+01	0.	.40000000E+00	.10000000E+01
386	.10000000E+01	.10000000E+01	.10000000E+01	0.	0.
391	.91100000E+00	.60000000E+00	0.	0.	0.
396	.31250000E+00	.50000000E-01	.10000000E+01	0.	.12100000E+01
401	.40000000E+00	.14250000E+01	.50000000E+00	.10000000E+01	.20000000E+01
406	.20000000E-01	.10000000E+01	.59000000E+00	.31200000E+00	.10250000E+01
411	.10250000E+01	.97500000E+00	.97500000E+00	0.	0.
416	0.	0.	.87500000E+00	.87500000E+00	.60000000E+01
421	.60000000E+01	.20000000E-01	.17500000E+01	.20000000E+01	.10500000E+01
426	.10500000E+01	0.	0.	0.	0.
446	0.	0.	0.	0.	.10000000E+01
451	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.50000000E+00
456	.50000000E+00	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
476	0.	0.	0.	0.	.10000000E+01
481	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
486	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
491	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
496	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
501	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
516	0.	0.	0.	0.	.10000000E+01
521	0.	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
526	.14131250E+03	.78200000E+02	.25000000E-04	0.	.10000000E+01
531	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
536	.10000000E-01	0.	0.	0.	0.
551	.10000000E+00	.20000000E+00	.30000000E+00	.40000000E+00	.50000000E+00
556	.60000000E+00	.70000000E+00	.80000000E+00	.90000000E+00	.10000000E+01
561	.42500000E+01	.45000000E+01	.46700000E+01	.48600000E+01	.50800000E+01
566	.53500000E+01	.56900000E+01	.61000000E+01	.65800000E+01	.71500000E+01
571	.77500000E+01	.50000000E-01	.10000000E+03	0.	0.

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 596    0.                  0.                  0.                  0.                  .10000000E+01
 601     .10000000E+01       .10000000E+01       .30000000E-01       .10750000E+01       .10750000E+01
 606     .10750000E+01       .10700000E+01       .10700000E+01       .10700000E+01       .17500000E+01
 611     .20000000E+01       .17500000E+01       .12500000E+01       .12500000E+01       .12500000E+01
 616     .11000000E+01       .11500000E+01       .11500000E+01       .11500000E+01       .11000000E+01
 621     .11500000E+01       .11500000E+01       .11500000E+01       .11000000E+01       .75000000E+00
 626     .11500000E+01       .11500000E+01       0.                  0.                  0.
 636    0.                  0.                  0.                  0.                  .10000000E+01
 641     .10000000E+01       .10000000E+01       .10000000E+01       .10000000E+01       .10000000E+01
 646     .10000000E+01       .10000000E+01       .10000000E+01       .10000000E+01       0.
 841    0.                   .10500000E+01       .10500000E+01       .10500000E+01       .10500000E+01
 846     .10500000E+01       .10500000E+01       .10500000E+01       .10500000E+01       .10500000E+01
 851     .10500000E+01       .10500000E+01       .12000000E+01       .12000000E+01       .12000000E+01
 856     .12000000E+01       .12000000E+01       .12000000E+01       .12000000E+01       .12000000E+01
 861     .12000000E+01       .12000000E+01       .12000000E+01       0.                  0.
 931     .11750000E+01       .11500000E+01       .11250000E+01       .11100000E+01       .11000000E+01
 936     .10900000E+01       .10800000E+01       .10700000E+01       .10600000E+01       .10500000E+01
 941     .10400000E+01       .10750000E+01       .10650000E+01       .10550000E+01       .10450000E+01
 946     .10350000E+01       .10250000E+01       .10150000E+01       .10050000E+01       .99500000E+00
 951     .98500000E+00       .97500000E+00       0.                  0.                  0.
1006    0.                  0.                   .10000000E+01       .10000000E+01       .10000000E+01
1011     .10000000E+01       .10000000E+01       .10000000E+01       .10000000E+01       .10000000E+01
1016     .10000000E+01       .10000000E+01       .10000000E+01       0.                  0.
1141    0.                  0.                   .15000000E+02       .20000000E+02       .20000000E+02
1146     .60000000E+01       .40000000E+01       .40000000E+01       .15000000E+02       .20000000E+02
1151     .20000000E+02       .60000000E+01       .40000000E+01       .40000000E+01       0.
1206     .10000000E+01       .80000000E+01       .15000000E+01       .77000000E-03       .80000000E+00
1211     .83000000E+00       .10000000E+00       .25000000E+00       .10000000E+00       0.
1216     .10000000E+01       .80000000E+01       .17500000E+01       .40000000E-03       .80000000E+00
1221     .54000000E+00       .10000000E+00       .25000000E+00       .10000000E+00       0.
1226     .10000000E+01       .80000000E+01       .15000000E+01       .40000000E-03       .80000000E+00
1231     .54000000E+00       .10000000E+00       .25000000E+00       .10000000E+00       0.
1236     .10000000E+01       .10000000E-01       .10000000E+01       .35000000E+00       .16500000E-01
1241     .14500000E+01       .10000000E+01       .70000000E+00       .95000000E+03       .10000000E+01
1246    0.                   .10000000E+00       .25000000E+00       .10000000E+00       0.
1251     .10000000E+01       .10000000E-01       .10000000E+01       .35000000E+00       .14500000E-01
1256     .13500000E+01       .75000000E+00       .70000000E+00       .95000000E+03       .10000000E+01
1261    0.                   .10000000E+00       .25000000E+00       .10000000E+00       0.
1266     .10000000E+01       .10000000E-01       .10000000E+01       .35000000E+00       .14500000E-01
```

1271	.13500000E+01	.75000000E+00	.70000000E+00	.95000000E+03	.10000000E+01
1276	0.	.10000000E+00	.25000000E+00	.10000000E+00	0.
1281	.10000000E+01	.10000000E+01	.20000000E+01	.20000000E+01	.20000000E+01
1286	.20000000E+01	.20000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
1291	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	0.
1366	.60000000E+01	.60000000E+01	.12000000E+02	.20000000E+01	.10000000E+01
1371	.30000000E+01	.50000000E+01	.50000000E+00	.25000000E+00	.40000000E+01
1376	.12000000E+02	.20000000E+01	.10000000E+01	.60000000E+01	.12000000E+02
1381	.20000000E+01	.10000000E+01	.40000000E+01	.80000000E+01	.20000000E+01
1386	.10000000E+01	.30000000E+01	.60000000E+01	.50000000E+00	.25000000E+00
1391	.30000000E+01	.50000000E+01	.50000000E+00	.25000000E+00	.30000000E+01
1396	.40000000E+01	.50000000E+00	.25000000E+00	.20000000E+01	0.
1401	.59267900E+00	.44276300E-04	0.	.10000000E+01	.35332000E+05
1406	.97110000E+03	.20786000E+05	.30570000E+00	.42561000E+01	.68750000E-05
1411	.41023570E-02	.11171853E+04	.10000000E-08	.10000000E+01	.10000000E-01
1416	.10000000E+01	0.	0.	0.	0.
1431	0.	-.11160000E+01	.14800000E+04	.22500000E+02	.80000000E+00
1436	.40000000E+00	.70000000E+00	.98481000E+00	.17365000E+00	.14814815E+00
1441	.10000000E+01	.10000000E-04	0.	0.	0.
1456	0.	0.	0.	0.	.10010000E+01
1461	.99900000E+00	0.	0.	0.	0.
1466	0.	0.	0.	0.	.60000000E+00
1471	.13000000E+01	.15600000E+00	.10000000E+01	.10000000E+01	.18800000E+00
1476	.25000000E+00	.37500000E+00	.50000000E+00	.80000000E-01	.15600000E+00
1481	.12100000E+01	.13750000E+01	.10500000E+01	.40000000E+01	.37500000E+00
1486	.10000000E+01	.12500000E+00	.13330000E+01	.17500000E+01	.50000000E+00
1491	.25000000E+01	.10000000E+01	.10000000E+01	.20000000E+01	.13000000E+06
1496	.28800000E+00	.45000000E+01	0.	0.	0.
1526	0.	0.	0.	0.	.10000000E+01
1531	.14500000E+00	.10000000E+01	.55100000E+00	.32000000E+00	.10000000E+01
1536	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1541	.10000000E-01	.10000000E+01	.12500000E+00	.10000000E+01	.45000000E+00
1546	.15000000E+01	.10000000E+01	.41300000E+00	.32000000E+00	.66700000E+00
1551	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1556	.10000000E-01	.75000000E+00	.12500000E+00	.10000000E+01	.10000000E+01
1561	.90000000E+01	.17250000E+01	.77000000E-03	.80000000E+00	.33000000E+00
1566	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1571	.10000000E-01	.50000000E+00	.12500000E+00	.10000000E+01	.83000000E+00
1731	.10000000E+01	.80000000E-02	.80000000E+00	.19500000E+01	.10000000E+00

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1736   .25000000E+00   .10000000E+00   .10000000E-01   .10000000E+01   .12500000E+00
1741   .10000000E+01   .45000000E+00   .15000000E+00   0.              .10000000E-02
1746   .69000000E+00   .14400000E+02   .25000000E+00   0.              .10000000E+01
1751   .12500000E+01   .15000000E+01   .17500000E+01   .10000000E+00   .25000000E+00
1756   .10000000E+00   .10000000E-01   .25000000E+00   .12500000E+00   .10000000E+01
1761   .25000000E+00   .12500000E+00   0.              0.              0.
1766   .10000000E+01   .18250000E-01   .35000000E+00   .15500000E+01   .50000000E+00
1771   .25000000E+00   .10000000E+00   .25000000E+00   .10000000E+00   .10000000E-01
1776   .10000000E+00   .12500000E+00   .10000000E+01   .10000000E+00   .50000000E-01
1781   0.              0.              0.              0.              .14000000E+01
1786   .77300000E+00   .35000000E+00   .30690000E+00   0.              .15000000E+01
1791   .24420000E-01   .35000000E+00   .13602700E+01   0.              .10000000E+00
1796   .28000000E+00   .40000000E+00   .55000000E+00   .10000000E+00   .10000000E+00
1801   .10000000E+00   .10000000E+00   .15000000E+00   .20000000E+00   .20000000E+00
1806   .10000000E+00   .10000000E+00   .10000000E+00   .47500000E+00   .40000000E+00
1811   .30000000E+00   .25000000E+00   .47500000E+00   .47500000E+00   .47500000E+00
1936   0.              0.              0.              .75000000E+00   .75000000E+00
1941   .75000000E+00   .10000000E+01   .75000000E+00   .10000000E+01   .10000000E+01
1946   .10000000E+01   .10000000E+01   .50000000E+00   .10000000E+04   .30000000E+01
1951   .25000000E+01   .15000000E+01   .12500000E+01   0.              0.
1956   .10000000E+01   .77000000E-03   .80000000E+00   .83000000E+00   .50000000E+00
1961   0.              .10000000E+00   .25000000E+00   .10000000E+00   0.
1966   0.              0.              0.              0.              .11550000E+00
1971   .53300000E-01   .53300000E-01   .68700000E-01   .53300000E-01   .50000000E-01
1976   .40000000E-01   .50000000E-01   .75000000E+00   .80000000E+00   .45000000E+00
1981   .80000000E+00   0.              0.              0.              0.
```

*** PERMANENT DATA FOR FUSELAGE - - RECORD 24 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415927E+01
16	.17453242E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.25000000E+00	0.	.14142136E+01
26	.32174049E+02	.18000000E+03	.17320510E+01	.25000000E+01	.13333333E+01
31	0.	0.	.50000000E+00	.50000000E+00	.25000000E+00
36	.40000000E+01	.40000000E+01	.15000000E+01	0.	.62500000E-04
41	.50000000E+01	.42600000E+00	.40000000E+01	.75000000E+01	0.
46	.90000000E+00	.75000000E+00	.50000000E-02	.20000000E+01	.20000000E+01
51	.50000000E-01	.32000000E-01	.14500000E+00	.50000000E-01	.32000000E-01
56	.10000000E+01	.50000000E-01	.25000000E-01	.10000000E+01	.90000000E+00
61	.87500000E+00	.32634338E+00	.50000000E-01	0.	0.
81	.14797570E+04	.52187000E+02	.61985800E+00	.14651750E+04	.50766950E+02
86	.64344120E+00	.29071940E-02	.19965900E+03	.48516740E+00	.11664560E+01
91	.48841200E+00	.40372030E+00	.14000000E+01	.60000000E+00	.48492710E+00
96	.55518410E+00	.16869440E+00	.21699920E-01	.96369400E-03	.11300000E+00
101	.90000000E+01	.52200000E+00	.29000000E-08	.28108000E+01	.52290000E+01
106	.60000000E+00	.16460000E+01	.89400000E+00	.39400000E+00	.12880000E+01
111	.13769000E+01	.24840000E+01	.19840000E+01	.44670000E+01	.14430000E+00
116	.17562200E+00	.13411000E-01	.12000000E+01	.10000000E+01	.78000000E+00
121	.65000000E+00	.15158600E+03	.18695000E+00	.58800000E+01	.20000000E-02
126	.75238000E-03	0.	.16000000E+00	.85000000E+00	.76118200E+03
131	.12500000E+00	.31200000E+00	.44440000E+00	.22400000E+03	.66670000E+00
136	.20000000E+01	.12000000E+02	.11000000E+01	.10000000E+01	.10000000E+02
141	.21500000E+03	.21500000E+03	.16900000E+01	.26000000E-02	.21580000E+01
146	.14800000E+04	.10500000E+05	.23000000E+00	.34800000E+00	.10258700E+00
151	.52500000E-01	.25000000E-02	.15740000E+03	.25000000E+00	.80000000E+02
156	.64000000E+03	.25000000E+03	.12500000E+03	.17500000E+00	.10000000E+02
161	.14000000E+02	.22100000E+01	.60000000E+01	.15000000E+01	.24000000E+02
166	.80000000E+01	.80000000E+01	.90000000E+01	.11450000E+02	.27600000E+01
171	.27600000E+01	.17500000E+01	.23500000E+01	.30600000E-02	.13000000E+01
176	.80000000E+00	.53000000E+01	.50000000E+01	.29000000E+01	.95000000E+01
181	0.	.12210000E+02	.93300000E+00	.40000000E+01	.55000000E+01
186	.25000000E+01	.15500000E+01	.90000000E-03	.13000000E+01	.17000000E+01
191	.19000000E+01	.15000000E+02	.20000000E-01	.17000000E+03	.19500000E+02

196	.19500000E+02	.10000000E+02	.48000000E+02	.24000000E+02	0.
201	.23000000E+03	.11000000E+02	.10000000E+02	.12000000E+03	.10000000E+02
206	.79449500E+03	.20673200E+04	.10450000E+02	.28000000E+00	.10000000E+02
211	.10000000E+03	.25000000E+02	.50000000E+01	.29300000E+01	.50000000E+01
216	.25000000E+01	.25000000E+01	.22000000E+01	.15000000E+01	.50000000E+00
221	.10000000E+00	.35000000E-01	.26000000E-01	.50000000E-01	.66000000E+00
226	.48000000E+01	.33000000E+01	.22700000E+01	.14160000E+02	.14131250E+03
231	.79200000E+02	.25000000E-04	.38000000E-03	.20000000E+02	.20000000E+00
236	.10000000E+00	.77000000E+00	0.	0.	0.
266	0.	0.	0.	.66326500E+00	0.
271	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
276	.10000000E+01	0.	0.	0.	0.

***PERMANENT DATA FOR LANDING GEAR - - RECORD 25 ***

1	.10000000E+00	.60000000E+00	.14000000E+01	.89285700E+00	.25000000E+00
6	.50000000E+00	.10000000E-02	.25000000E+00	.50000000E+00	.25000000E+00
11	.80000000E+00	.10000000E+00	.34777600E+02	.98000000E+00	.80000000E-01
16	.80000000E+00	.20240000E+01	.29630000E+00	.62380000E+00	.80000000E+00
21	.10000000E+01	.12000000E+01	.10000000E+01	.10000000E+01	.40800000E-05
26	.50000000E+02	.10000000E+03	.20000000E+02	.10000000E+02	.30000000E+02
31	.50000000E+02	.10000000E+02	.10000000E+01	.10000000E+01	.20000000E+01
36	.30000000E-01	.10000000E+01	.12000000E+01	.10000000E+01	.60000000E+00
41	.20000000E+00	.12000000E+00	0.	0.	0.

*** PERMANENT DATA FOR AIR INDUCTION SYSTEM - - RECORD 28 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415927E+01
16	.17453242E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.25000000E+00	0.	.14142136E+01
26	.32174049E+02	.18000000E+03	.17320510E+01	.25000000E+01	.13333333E+01
31	.50000000E+00	0.	0.	0.	0.
36	0.	0.	0.	.15000000E+01	.12000000E+01
41	.50000000E+01	.42600000E+00	.40000000E+01	.75000000E+01	.10000000E+01
46	.90000000E+00	.75000000E+00	.50000000E-02	.20000000E+01	.20000000E+01
51	.50000000E-01	.32000000E-01	.14500000E+00	.50000000E-01	.32000000E-01
56	.10000000E+01	.50000000E-01	.25000000E-01	.10000000E+01	.90000000E+00
61	.87500000E+00	.32634338E+00	.50000000E-01	0.	0.
81	.36089239E+02	.21162200E+04	.68755900E-02	.52559100E+01	.65616880E+02
86	.20805560E+02	.47268000E+03	.10498688E+03	.11434500E+03	.38997000E+03
91	-.34163400E+02	.54864100E+00	.18131000E+02	.15361900E+01	.41157000E+03
96	-.12201200E+02	.15419948E+03	.51867000E+03	.35661600E+01	.38997030E+03
101	.30400000E-05	.53300000E+02	.14000000E+01	.75000000E-01	.13500000E+01
106	.30000000E+00	.50000000E+00	.46000000E+03	.12530000E+02	.15650000E+02
111	.51800000E+02	.80000000E+00	.50000000E-01	.40000000E+03	.10190560E+01
116	.28915600E-01	.13501120E+01	.66431900E+00	.15000000E+01	.60262700E-02
121	.80725000E-01	.31650300E+01	.15885240E+01	.11000000E+04	.25000000E+01
126	.77047600E+00	.14825150E+00	.43717580E+01	.21149690E+01	.90000000E+03
131	.15381160E+01	.30296970E+00	.48723350E+00	.46531260E+00	.70000000E+03
141	.16000000E+01	.98400000E+00	.74000000E-02	.26300000E-01	0.
161	.30000000E-01	.60000000E-01	.71853000E-01	.66666700E+00	.26666670E+01
166	.16666670E+01	.13769000E+01	.24840000E+01	.19840000E+01	.44670000E+01
171	.16460000E+01	.89400000E+00	.39400000E+00	.12880000E+01	.25000000E+01
176	.40000000E+01	.48516740E+00	.11664560E+01	.48841200E+00	.40372030E+00
181	.14000000E+01	.60000000E+00	.48492710E+00	.55518400E+00	.16869440E+00
186	.21699920E-01	.96369400E-03	.12000000E+02	.14131250E+03	.79200000E+02
191	.25000000E-04	.15000000E-01	.12000000E+02	.15000000E+02	.29300000E+01
196	.25000000E+01	.80000000E+00	.50000000E+01	.26000000E-01	.10000000E+01
271	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	0.
421	.90000000E+00	.50000000E+00	.50000000E+00	.20000000E+00	.90000000E+00
426	.44000000E+01	.10000000E+00	.10000000E+01	.10000000E+01	.10000000E+01
431	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01

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436   .50000000E+00   .40000000E+00   .20000000F+00   .80000000E+00   .10000000E+00
441   .70000000E-01   .10000000E+00   .15000000E+00   .30000000E+02   .10000000E+01
446   .10000000E+01   .10000000E+01   .10000000E+01   .10000000E+01   .10000000E+01
451   .10000000E+01   .10000000E+01   .10000000F+01   .10000000E+01   .10000000E+01
456   .20000000F+00   .50000000E+00   .40000000E+00   .90000000E+00   .20000000E+00
461   .80000000E+00   .10000000E+00   .10000000F+00   .70000000E-01   .10000000E+00
466   .15000000E+00   .30000000E+02   .10000000F+01   .10000000E+01   .10000000E+01
471   .10000000E+01   .10000000E+01   .10000000E+01   .10000000E+01   .10000000E+01
476   .10000000E+01   .10000000F+01   .10000000F+01   .10000000E+01   .10000000E+01
481   .10000000E+01   .10000000E+01   .60000000E+00   .10000000E+01   .10000000E+01
486   .40000000E+00   .10000000E+00   .75000000F+00   .15000000E+00   .90000000E+00
491   .10000000E+00   .10000000E+00   .80000000E-01   .10000000E+00   .10000000E+00
496   .12500000E+00   .20000000E+02   .10000000E+02   .40000000E-01   .20000000E-01
501   .15000000E-01   .40000000E-01   .10000000E-01   .25000000E-01   .13000000E-01
506   .10000000E-01   .25000000E-01   .10000000E-01   .20000000E-01   .10000000E-01
511   .10000000E-01   .20000000E-01   .10000000E-01   0.              0.
641   .90000000E+00   .50000000E+00   .50000000E+00   .20000000E+00   .90000000E+00
646   .44000000E+01   .10000000E+00   .10000000F+01   .10000000E+01   .10000000E+01
651   .10000000E+01   .10000000E+01   .10000000F+01   .10000000E+01   .10000000E+01
656   .50000000E+00   .40000000E+00   .20000000F+00   .80000000E+00   .10000000E+00
661   .70000000E-01   .10000000E+00   .15000000E+00   .30000000E+02   .10000000E+01
666   .10000000E+01   .10000000E+01   .10000000F+01   .10000000E+01   .10000000E+01
671   .10000000E+01   .10000000E+01   .10000000E+01   .10000000E+01   .10000000E+01
676   .20000000E+00   .50000000E+00   .40000000E+00   .90000000E+00   .20000000E+00
681   .80000000E+00   .10000000E+00   .10000000F+00   .70000000E-01   .10000000E+00
686   .15000000E+00   .30000000E+02   .10000000E+01   .10000000E+01   .10000000E+01
691   .10000000E+01   .10000000E+01   .10000000F+01   .10000000E+01   .10000000E+01
696   .10000000E+01   .10000000E+01   .10000000E+01   .10000000E+01   .10000000E+01
701   .10000000E+01   .10000000E+01   .60000000F+00   .10000000E+01   .10000000E+01
706   .40000000E+00   .10000000E+00   .75000000E+00   .15000000E+00   .90000000E+00
711   .10000000E+00   .10000000E+00   .80000000F-01   .10000000E+00   .10000000E+00
716   .12500000E+00   .20000000E+02   .10000000E+02   .40000000E-01   .20000000E-01
721   .15000000E-01   .40000000E-01   .10000000F-01   .25000000E-01   .13000000E-01
726   .10000000E-01   .25000000F-01   .10000000E-01   .20000000E-01   .10000000E-01
731   .10000000E-01   .20000000E-01   .10000000E-01   0.              0.
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*** PERMANENT DATA FOR VF AND TEMPERATURE - - RECORD 12 ***

1	.20000000E+00	.40000000E+00	.60000000E+00	.80000000E+00	.82500000E+00
6	.85000000E+00	.87500000E+00	.90000000E+00	.92500000E+00	.95000000E+00
11	.97500000E+00	.10000000E+01	.10250000E+01	.10500000E+01	.10750000E+01
16	.11000000E+01	.11250000E+01	.11500000E+01	.11750000E+01	.12000000E+01
21	.13000000E+01	.14000000E+01	.15000000E+01	.16000000E+01	.17000000E+01
26	.18000000E+01	.19000000E+01	.20000000E+01	.21000000E+01	.22000000E+01
31	.23000000E+01	.24000000E+01	.25000000E+01	.30000000E+01	.35000000E+01
36	.40000000E+01	.45000000E+01	.50000000E+01	.60000000E-01	.12000000E+00
41	.18000000E+00	.24000000E+00	.25500000E+00	.27500000E+00	.29500000E+00
46	.31000000E+00	.32200000E+00	.32700000E+00	.33000000E+00	.33200000E+00
51	.33300000E+00	.33200000E+00	.32900000E+00	.32500000E+00	.32000000E+00
56	.31400000E+00	.30700000E+00	.30000000E+00	.27800000E+00	.26700000E+00
61	.26200000E+00	.25900000E+00	.25700000E+00	.25700000E+00	.25800000E+00
66	.26000000E+00	.26200000E+00	.26400000E+00	.26600000E+00	.26900000E+00
71	.27200000E+00	.29200000E+00	.31500000E+00	.33900000E+00	.36400000E+00
76	.39000000E+00	.24000000E-01	.48000000E-01	.72000000E-01	.96000000E-01
81	.99000000E-01	.10200000E+00	.10500000E+00	.10800000E+00	.11100000E+00
86	.11300000E+00	.11500000E+00	.11700000E+00	.11900000E+00	.12000000E+00
91	.12100000E+00	.12200000E+00	.12300000E+00	.12200000E+00	.12100000E+00
96	.12000000E+00	.11700000E+00	.11400000E+00	.11200000E+00	.11100000E+00
101	.11000000E+00	.11000000E+00	.11100000E+00	.11200000E+00	.11400000E+00
106	.11600000E+00	.11800000E+00	.12000000E+00	.12200000E+00	.13000000E+00
111	.13900000E+00	.14900000E+00	.16000000E+00	.17200000E+00	.82000000E-01
116	.16400000E+00	.24600000E+00	.32800000E+00	.34200000E+00	.36000000E+00
121	.38500000E+00	.40000000E+00	.41000000E+00	.41800000E+00	.42500000E+00
126	.43000000E+00	.43300000E+00	.43500000E+00	.43700000E+00	.43800000E+00
131	.43700000E+00	.43500000E+00	.43300000E+00	.43000000E+00	.41300000E+00
136	.39000000E+00	.36500000E+00	.35000000E+00	.33700000E+00	.33000000E+00
141	.32300000E+00	.32000000E+00	.32000000E+00	.32200000E+00	.32500000E+00
146	.32800000E+00	.33300000E+00	.36000000E+00	.39200000E+00	.42500000E+00
151	.46000000E+00	.49800000E+00	.52000000E-01	.10400000E+00	.15600000E+00
156	.20800000E+00	.21400000E+00	.22000000E+00	.22600000E+00	.23200000E+00
161	.23800000E+00	.24400000E+00	.25000000E+00	.25500000E+00	.25900000E+00
166	.26300000E+00	.26600000E+00	.26800000E+00	.26900000E+00	.26800000E+00
171	.26600000E+00	.26300000E+00	.25200000E+00	.24500000E+00	.24000000E+00
176	.23700000E+00	.23500000E+00	.23400000E+00	.23500000E+00	.23600000E+00
181	.23700000E+00	.23800000E+00	.23900000E+00	.24100000E+00	.24300000E+00

186	.25600000E+00	.27300000E+00	.29100000E+00	.31000000E+00	.33000000E+00
191	.73000000E-01	.14600000E+00	.21900000E+00	.29200000E+00	.30700000E+00
196	.32500000E+00	.34300000E+00	.36000000E+00	.37600000E+00	.39000000E+00
201	.40100000E+00	.41000000E+00	.41700000E+00	.42200000E+00	.42400000E+00
206	.42500000E+00	.42300000E+00	.42000000E+00	.41600000E+00	.41000000E+00
211	.38200000E+00	.35400000E+00	.33700000E+00	.33000000E+00	.32700000E+00
216	.32500000E+00	.32700000E+00	.33000000E+00	.33300000E+00	.33700000E+00
221	.34100000E+00	.34500000E+00	.34900000E+00	.37200000E+00	.39700000E+00
226	.42300000E+00	.45100000E+00	.48000000E+00	.25000000E-01	.50000000E-01
231	.75000000E-01	.10000000E+00	.10300000E+00	.10600000E+00	.10900000E+00
236	.11200000E+00	.11500000E+00	.11800000E+00	.12100000E+00	.12300000E+00
241	.12500000E+00	.12600000E+00	.12700000E+00	.12800000E+00	.12700000E+00
246	.12600000E+00	.12500000E+00	.12400000E+00	.11500000E+00	.11100000E+00
251	.11000000E+00	.11100000E+00	.11200000E+00	.11400000E+00	.11600000E+00
256	.11800000E+00	.12100000E+00	.12400000E+00	.12700000E+00	.13000000E+00
261	.13300000E+00	.14800000E+00	.16400000E+00	.18100000E+00	.19900000E+00
266	.21700000E+00	.77000000E-01	.15400000E+00	.23100000E+00	.30800000E+00
271	.32200000E+00	.34000000E+00	.36000000E+00	.37500000E+00	.38700000E+00
276	.39500000E+00	.40000000E+00	.40300000E+00	.40400000E+00	.40500000E+00
281	.40400000E+00	.40200000E+00	.39500000E+00	.38500000E+00	.37000000E+00
286	.35800000E+00	.33000000E+00	.31000000E+00	.30600000E+00	.30500000E+00
291	.30700000E+00	.31000000E+00	.31300000E+00	.31600000E+00	.32000000E+00
296	.32400000E+00	.32800000E+00	.33300000E+00	.33900000E+00	.36400000E+00
301	.39200000E+00	.42200000E+00	.45400000E+00	.48600000E+00	.12000000E+01
306	.85000000E+00	.85000000E+00	.10000000E+01	.10000000E+01	.10000000E+02

*** PERMANENT GENERAL DATA - - RECORD 11 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415927E+01
16	.17453242E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.25000000E+00	0.	.14142136E+01
26	.32174049E+02	.18000000E+03	.17320510E+01	.25000000E+01	.13333330E+01
31	.15000000E+01	.12000000E+01	.20000000E+01	0.	0.
81	.36089239E+02	.21162200E+04	.68755900E-02	.52559100E+01	.65616880E+02
86	.20805560E+02	.47268000E+03	.10498688E+03	.11434500E+03	.38997000E+03
91	-.34163400E+02	.54864100E+00	.18131000E+02	.15361900E+01	.41157000E+03
96	-.12201200E+02	.15419948E+03	.51867000E+03	.35661600E+01	.38997000E+03
101	.30400000E-05	.53300000E+02	.14000000E+01	.75000000E-01	.13500000E+01
106	.30000000E+00	.50000000E+00	.46000000E+03	.12530000E+02	.15650000E+02
111	.51800000E+02	.80000000E+00	.50000000E-01	.40000000E+03	.10190560E+01
116	.28915600E-01	.13501120E+01	.66431900E+00	.15000000E+01	.60262700E-02
121	.80725000E-01	.31650300E+01	.15885240E+01	.11000000E+04	.25000000E+01
126	.77047600E+00	.14825150E+00	.43717580E+01	.21149690E+01	.90000000E+03
131	.15381160E+01	.30296970E+00	.48723350E+00	.46531260E+00	.70000000E+03
141	.16000000E+01	.98400000E+00	.74000000E-02	.26300000E-01	.20000000E+04
146	.97500000E+00	.97500000E+00	.97500000E+00	0.	0.
151	.20000000E+01	.10000000E+02	.50000000E+00	.40000000E+01	.15000000E+01
156	.10000000E+02	.50000000E+00	.10000000E+01	.25000000E+01	.12000000E+02
161	.15000000E-01	.40000000E+00	.95000000E+00	.50000000E-03	.50000000E+01
166	.60000000E+00	.80000000E+00	.10000000E+01	.13500000E+01	.25000000E+00
171	.50000000E+03	.64200000E-02	.43000000E+00	.41400000E+00	.16800000E+00
176	.89600000E+00	.43000000E-01	.12100000E+00	.25000000E-01	.63270000E+02
181	.10000000E+01	.43000000E+00	.37600000E+00	.12200000E+00	.87300000E+00
186	.35700000E+00	.48900000E+00	.39000000E-01	.13720000E+02	.10000000E+01
191	.43000000E+00	.41160000E+00	.77560000E+00	.21360000E+00	.21920000E+00
196	.85000000E+00	.15000000E+00	.11240000E+01	.17200000E+00	.47000000E-01
201	.65000000E-01	.24100000E+00	.52000000E-01	.10000000E+01	.55000000E+00
206	.48000000E+00	0.	.53200000E+00	.12800000E+00	.12400000E+00
211	.38000000E-01	.17800000E+00	.72400000E+00	.27400000E+00	.29000000E+00
216	0.	.10000000E+00	.70000000E+00	.33000000E+00	.25000000E+00
221	.20000000E+00	.50000000E+00	.50000000E+03	0.	0.

*** AIRFOIL DATA - - RECORD 36 ***

1	0.	-.93446323E+01	.27177208E+02	-.21381634E+02	-.13898283E+01
6	.49388860E+01	.48994110E-01	-.12790081E+00	-.13299356E+00	.46015690E+00
11	.41350000E+00	.29000000E+01	.10000000E+01	0.	-.13072505E+02
16	.40148160E+02	-.37666393E+02	.71783256E+01	.34124120E+01	.44394160E-01
21	-.13256331E+00	-.12243159E+00	.46448983E+00	.40770000E+00	.29000000E+01
26	.10000000E+01	0.	-.15743626E+02	.51059018E+02	-.53258400E+02
31	.16314251E+02	.16287570E+01	.26804980E-01	-.14113970E+00	-.90883710E-01
36	.47987043E+00	.40060000E+00	.29000000E+01	.10000000E+01	-.29905134E+02
41	.92841304E+02	-.95967205E+02	.36407634E+02	-.67531984E+01	.33765992E+01
46	-.16400000E-02	-.15016514E+00	-.44901980E-01	.49728155E+00	.39270000E+00
51	.29000000E+01	.10000000E+01	0.	0.	0.
56	0.	.10000000E+01	0.	-.16002000E-03	-.16638169E+00
61	.20004000E-03	.49973682E+00	.33330000E+00	.13140000E+01	.13140000E+01
66	0.	0.	.16000000E+02	-.32000000E+02	.16000000E+02
71	0.	0.	0.	.12500000E+00	.25000000E+00
76	.12500000E+00	.25000000E+00	.25000000E+00	0.	0.

*** GJ DATA - - RECORD 37 ***

1	-.11160000E+01	.14813000E+04	.22500000E+02	.80000000E+00	.40000000E+00
6	.70000000E+00	.98481000E+00	.17365000E+00	.14814815E+00	.10000000E+01
11	.10000000E-04	.32174000E+02	.25880000E+02	0.	0.
16	0.	0.	.20000000E+02	0.	.15000000E+02
21	0.	.62000000E+00	.66000000E+00	.70000000E+00	.76000000E+00
26	.82000000E+00	.86000000E+00	.90000000E+00	.94000000E+00	.97000000E+00
31	.10000000E+01	.10400000E+01	.10800000E+01	.11400000E+01	.12400000E+01
36	.13200000E+01	.14000000E+01	.16000000E+01	.18000000E+01	.20000000E+01
41	.14600000E+06	.14600000E+06	.14600000E+06	.14600000E+06	.14600000E+06
46	.14600000E+06	.15200000E+06	.16500000E+06	.18300000E+06	.18800000E+06
51	.19000000E+06	.18800000E+06	.18000000E+06	.16800000E+06	.15000000E+06
56	.14000000E+06	.13000000E+06	.11400000E+06	.10500000E+06	.10000000E+06
61	.36600000E+06	.36600000E+06	.36300000E+06	.35500000E+06	.33200000E+06
66	.31600000E+06	.30800000E+06	.30300000E+06	.29700000E+06	.29400000E+06
71	.29000000E+06	.28500000E+06	.28100000E+06	.27600000E+06	.26800000E+06
76	.26300000E+06	.25600000E+06	.24800000E+06	.24000000E+06	.23500000E+06

*** MATERIAL NUMBER 1 - - RECORD 41 ***

2024-T81 AL CLAD SHEET 0.063 TO 0.249 IN. MIL-HDBK-5 S DATA EST.
REF. TABLE 3.2.3..0(D) PAGE 258 8-09-72

1	.10000000E+01	.10000000E+00	.10700000E+08	.40220000E+07	.16000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.4252336 0E-02	.73271020E-02	.45500000E+05	.50300000E+05
116	.53600000E+05	.55700000E+05	.57000000E+05	.4252336 0E-02	.73271020E-02
121	.45500000E+05	.50300000E+05	.53600000E+05	.55700000E+05	.57000000E+05
126	.65000000E+05	.39000000E+05	.12700000E+06	0.	.22500000E+00
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 2 - - RECORD 42 ***

2024-T851 AL BARE PLATE 0.5 TO 1.0 IN. REF-AF1.90/1.10
120 HRS AT 290 DEG MIL-HDBK-5 S DATA 10-24-69

1	.20000000E+01	.10000000E+00	.10700000E+08	.40225600E+07	.16000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.43458000E-02	.74673000E-02	.46500000E+05	.52100000E+05
116	.55200000E+05	.57200000E+05	.58500000E+05	.43458000E-02	.74673000E-02
121	.46500000E+05	.52100000E+05	.55200000E+05	.57200000E+05	.58500000E+05
126	.66000000E+05	.38000000E+05	.11700000E+06	0.	.22500000E+00
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.20000000E+03
136	.34500000E+00	.41904760E-02	.72857140E-02	.44000000E+05	.49100000E+05
141	.52300000E+05	.54200000E+05	.55500000E+05	.41904760E-02	.72857140E-02
146	.44000000E+05	.49100000E+05	.52300000E+05	.54200000E+05	.55500000E+05
151	.61500000E+05	.35500000E+05	.10900000E+06	0.	.22500000E+00
156	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.30000000E+03
161	.35800000E+00	.38725490E-02	.68529410E-02	.39500000E+05	.44300000E+05
166	.47000000E+05	.48500000E+05	.49500000E+05	.38725490E-02	.68529410E-02
171	.39500000E+05	.44300000E+05	.47000000E+05	.48500000E+05	.49500000E+05
176	.55000000E+05	.31500000E+05	.97500000E+05	0.	.22500000E+00
181	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 3 - - RECORD 43 ***

2024-T851 AL PLATE 1.0 TO 3.0 IN. REF-BA2.A 2-5-70
390 HRS AT 265 DEG. MIL-HDBK-5 S VALUES PER ALCOA 2-09-70

1	.30000000E+01	.10000000E+00	.10770000E+08	.40225600E+07	.16000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.41590000E-02	.70930000E-02	.44500000E+05	.49100000E+05
116	.51900000E+05	.53500000E+05	.54500000E+05	.41590000E-02	.70930000E-02
121	.44500000E+05	.49100000E+05	.51900000E+05	.53500000E+05	.54500000E+05
126	.65000000E+05	.37500000E+05	.10900000E+06	0.	.22500000E+00
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.16500000E+03
136	.33400000E+00	.40950000E-02	.70480000E-02	.43000000E+05	.47900000E+05
141	.50500000E+05	.52000000E+05	.53000000E+05	.40950000E-02	.70480000E-02
146	.43000000E+05	.47900000E+05	.50500000E+05	.52000000E+05	.53000000E+05
151	.62500000E+05	.36000000E+05	.10600000E+06	0.	.22500000E+00
156	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.19700000E+03
161	.33600000E+00	.40480000E-02	.69520000E-02	.42500000E+05	.47100000E+05
166	.49700000E+05	.51200000E+05	.52000000E+05	.40480000E-02	.69520000E-02
171	.42500000E+05	.47100000E+05	.49700000E+05	.51200000E+05	.52000000E+05
176	.61000000E+05	.35000000E+05	.10400000E+06	0.	.22500000E+00
181	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.26500000E+03
186	.33900000E+00	.38830000E-02	.67570000E-02	.40000000E+05	.44500000E+05
191	.46900000E+05	.48200000E+05	.49000000E+05	.38830000E-02	.67570000E-02
196	.40000000E+05	.44500000E+05	.46900000E+05	.48200000E+05	.49000000E+05
201	.56500000E+05	.32500000E+05	.98000000E+05	0.	.22500000E+00
206	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.35000000E+03
211	.34300000E+00	.35500000E-02	.63000000E-02	.35500000E+05	.39100000E+05
216	.41500000E+05	.42500000E+05	.43000000E+05	.35500000E-02	.63000000E-02
221	.35500000E+05	.39100000E+05	.41500000E+05	.42500000E+05	.43000000E+05
226	.49000000E+05	.28000000E+05	.86000000E+05	0.	.22500000E+00
231	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 4 - - RECORD 44 ***

7075-T6 AL CLAD SHEET 0.040 TO 0.062 IN. MIL-HDBK-5 B DATA EST.
REF. TABLE 3.2.7.0(C) PAGE 336 8-09-72

1	.40000000E+01	.10100000E+00	.10700000E+08	.40225600E+07	.18000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33050000E+00	.38095200E-02	.81904900E-02	.40000000E+05	.51200000E+05
116	.59000000E+05	.62900000E+05	.65000000E+05	.38095200E-02	.81904900E-02
121	.40000000E+05	.51200000E+05	.59000000E+05	.62900000E+05	.65000000E+05
126	.73000000E+05	.44000000E+05	.13900000E+06	0.	.22500000E+00
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 5 - - RECORD 45 ***

7075-T6 AL BARE PLATE 0.25 TO 0.50 IN. MIL-HDBK-5 B DATA EST.
REF. TABLE 3.2.7.0(B) PAGE 334 4-06-72

1	.50000000E+01	.10100000E+00	.10500000E+08	.39000000E+07	.18000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.50000000E-02	.87619000E-02	.52500000E+05	.59700000E+05
116	.65000000E+05	.68750000E+05	.71000000E+05	.50000000E-02	.87619000E-02
121	.52500000E+05	.59700000E+05	.65000000E+05	.68750000E+05	.71000000E+05
126	.79000000E+05	.47000000E+05	.14200000E+06	0.	.22500000E+00
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 6 - - RECORD 46 ***

7075-T6511 AL EXTRU. 3.0 TO 4.0 IN. MIL-HDBK-5 A DATA EST.
REF. TABLE 3.2.7.0(F) PAGE 340 2-26-72

1	.60000000E+01	.10100000E+00	.10500000E+08	.39000000E+07	.18000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.5142857E-02	.82857140E-02	.54000000E+05	.59100000E+05
116	.62300000E+05	.64450000E+05	.66000000E+05	.5142857E-02	.82857140E-02
121	.54000000E+05	.59100000E+05	.62300000E+05	.64450000E+05	.66000000E+05
126	.81000000E+05	.45000000E+05	.97000000E+05	0.	.22500000E+00
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 7 - - RECORD 47 ***

7075-T7351 AL BARE PLATE 0.25 TO 0.50 IN. MIL-HDBK-5 S DATA EST.
REF. TABLE 3.2.7.0(R) PAGE 334 12-14-71

1	.70000000E+01	.10100000E+00	.10500000E+08	.39000000E+07	.18000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.43204000E-02	.74369000E-02	.44500000E+05	.49800000E+05
116	.52800000E+05	.54700000E+05	.56000000E+05	.43204000E-02	.74369000E-02
121	.44500000E+05	.49800000E+05	.52800000E+05	.54700000E+05	.56000000E+05
126	.69000000E+05	.39000000E+05	.13700000E+06	0.	.22500000E+00
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 8 - - RECORD 48 ***

7050-T7351 AL BARE PLATE
ESTIMATED DESIGN VALUE 2 MAY 1972

1	.80000000E+01	.10200000E+00	.10500000E+08	.39000000E+07	.20000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.50290000E-02	.83010000E-02	.52800000E+05	.58200000E+05
116	.63000000E+05	.65100000E+05	.66000000E+05	.50290000E-02	.83010000E-02
121	.52800000E+05	.58200000E+05	.63000000E+05	.65100000E+05	.66000000E+05
126	.76000000E+05	.42200000E+05	.97000000E+05	0.	.22500000E+00
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 9 - - RECORD 49 ***

2219-T851 AL BARE SHEET AND PLATE 0.25 TO 2.0 IN.
CURVE DERIVED FROM T852 CURVE AND T851 CHART 12 JUNE 1972

1	.90000000E+01	.10200000E+00	.10500000E+08	.40000000E+07	.27000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.36400000E-02	.64600000E-02	.39360000E+05	.43800000E+05
116	.46300000E+05	.47500000E+05	.48000000E+05	.36400000E-02	.64600000E-02
121	.39360000E+05	.43800000E+05	.46300000E+05	.47500000E+05	.48000000E+05
126	.62000000E+05	.36000000E+05	.11800000E+06	0.	.22500000E+00
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 10 - - RECORD 50 ***

7178-T6 AL CLAD SHEET 0.045 TO 0.249 IN. MIL-HDBK-5 B DATA EST.
REF. TABLE 3.2.9.0(C) PAGE 369 B-09-72

1	.10000000E+02	.10200000E+00	.10500000E+08	.39000000E+07	.20000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.49047610E-02	.91428570E-02	.51500000E+05	.61000000E+05
116	.67800000E+05	.72500000E+05	.75000000E+05	.49047610E-02	.91428570E-02
121	.51500000E+05	.61000000E+05	.67800000E+05	.72500000E+05	.75000000E+05
126	.80000000E+05	.48000000E+05	.15200000E+06	0.	.22500000E+00
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 11 - - RECORD 51 ***

7178-T6 AL BARE SHEET 0.045 TO 0.249 IN. REF-FX-45 1-25-68
120 HRS AT 280 DEG. MIL-HDBK-5 B DATA

1	.11000000E+02	.10200000E+00	.10500000E+08	.39000000E+07	.20000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.49047610E-02	.91428570E-02	.51500000E+05	.61000000E+05
116	.67800000E+05	.72500000E+05	.75000000E+05	.49047610E-02	.91428570E-02
121	.51500000E+05	.61000000E+05	.67800000E+05	.72500000E+05	.75000000E+05
126	.81000000E+05	.49000000E+05	.15350000E+06	0.	.22500000E+00
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.28000000E+03
136	.35500000E+00	.51578940E-02	.87368420E-02	.49000000E+05	.54600000E+05
141	.58400000E+05	.61400000E+05	.64000000E+05	.51578940E-02	.87368420E-02
146	.49000000E+05	.54600000E+05	.58400000E+05	.61400000E+05	.64000000E+05
151	.59500000E+05	.46000000E+05	.11300000E+06	0.	.22500000E+00
156	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 12 - - RECORD 52 ***

7079-T651 AL BARE PLATE 0.25 TO 1.50 IN. MIL-HDBK-5 A DATA EST.
REF. TABLE 3.2.8.0(D) PAGE 358 2-24-72

1	.12000000E+02	.99000000E-01	.10500000E+08	.39000000E+07	.20000000E+00
6	.50900000E+00	.31200000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.43810000E-02	.80000000E-02	.52800000E+05	.52800000E+05
116	.57900000E+05	.61100000E+05	.63000000E+05	.43810000E-02	.80000000E-02
121	.46000000E+05	.52800000E+05	.57900000E+05	.61100000E+05	.63000000E+05
126	.71000000E+05	.42000000E+05	.11400000E+06	0.	.22500000E+00
131	.76000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 13 - - RECORD 53 ***

6AL-4V II-A* SHT/PLATE TO .250 IN. REF-TF1.90/1.10 2-22-69
120 HRS AT 290 DEG. MIL-HDBK-5 A DATA

1	.13000000E+02	.16000000E+00	.16400220E+08	.61655000E+07	.27000000E+00
6	.77100000E+00	.30400000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.72560000E-02	.10414600E-01	.11900000E+06	.12700000E+06
116	.13200000E+06	.13550000E+06	.13800000E+06	.72560000E-02	.10414600E-01
121	.11900000E+06	.12700000E+06	.13200000E+06	.13550000E+06	.13800000E+06
126	.13900000E+06	.81000000E+05	.25000000E+06	0.	.28000000E+00
131	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.20000000E+03
136	.33600000E+00	.65397000E-02	.99365000E-02	.10300000E+06	.11160000E+06
141	.11850000E+06	.12220000E+06	.12500000E+06	.65397000E-02	.99365000E-02
146	.10300000E+06	.11160000E+06	.11850000E+06	.12220000E+06	.12500000E+06
151	.12600000E+06	.74500000E+05	.25000000E+06	0.	.28000000E+00
156	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.24500000E+03
161	.33825000E+00	.65326000E-02	.97813000E-02	.10097500E+06	.10900000E+06
166	.11440000E+06	.11790000E+06	.12027500E+06	.65326000E-02	.97813000E-02
171	.10097500E+06	.10900000E+06	.11440000E+06	.11790000E+06	.12027500E+06
176	.12250000E+06	.72250000E+05	.24055000E+06	0.	.28000000E+00
181	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.30000000E+03
186	.34100000E+00	.65232000E-02	.95828000E-02	.98500000E+05	.10530000E+06
191	.10960000E+06	.11260000E+06	.11450000E+06	.65232000E-02	.95828000E-02
196	.98500000E+05	.10530000E+06	.10960000E+06	.11260000E+06	.11450000E+06
201	.11700000E+06	.69500000E+05	.22900000E+06	0.	.28000000E+00
206	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.50000000E+03
211	.35100000E+00	.60932000E-02	.90609000E-02	.85000000E+05	.91200000E+05
216	.95100000E+05	.97400000E+05	.98500000E+05	.60932000E-02	.90609000E-02
221	.85000000E+05	.91200000E+05	.95100000E+05	.97400000E+05	.98500000E+05
226	.10700000E+06	.62500000E+05	.20942700E+06	0.	.28000000E+00
231	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MAIFRIAL NUMRER 14 - - RECORD 54 ***

6AL-4V TI-A*PLAIE 3/16 TO 4.0 IN. REF- SDM ITR-9.5.1.3.11
9-13-72 390 HRS AT 265 DEG. MIL-HDBK-5 S DATA

1	.14000000E+02	.16000000E+00	.16400000F+08	.6165790DE+07	.27000000E+00
6	.77100000E+00	.30400000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.33000000E+00	.64634000E-02	.96829000E-02	.10600000E+06	.11500000E+06
116	.12100000E+06	.12400000E+06	.12600000E+06	.64634000E-02	.96829000E-02
121	.10600000E+06	.11500000E+06	.12100000E+06	.12400000E+06	.12600000E+06
126	.13000000E+06	.76000000E+05	.24500000E+06	0.	.23000000E+00
131	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.16500000E+03
136	.33400000E+00	.61635000E-02	.93584900E-02	.98000000E+05	.10400000E+06
141	.11210000E+06	.11530000E+06	.11700000E+06	.61635000E-02	.93584900E-02
146	.98000000E+05	.10400000E+06	.11210000E+06	.11530000E+06	.11700000E+06
151	.12100000E+06	.71500000E+05	.23400000E+06	0.	.23000000E+00
156	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.19700000E+03
161	.33600000E+00	.60828000E-02	.92611400E-02	.95500000E+05	.10370000E+06
166	.10890000E+06	.11220000E+06	.11400000F+06	.60828000E-02	.92611400E-02
171	.95500000E+05	.10370000E+06	.10890000E+06	.11220000E+06	.11400000E+06
176	.11800000E+06	.70000000E+05	.22800000E+06	0.	.23000000E+00
181	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.26500000E+03
186	.33900000E+00	.58820000E-02	.89934000F-02	.90000000E+05	.98300000E+05
191	.10250000E+06	.10500000E+06	.10700000E+06	.58820000E-02	.89934000E-02
196	.90000000E+05	.98300000E+05	.10250000E+06	.10500000E+06	.10700000E+06
201	.11250000E+06	.67000000E+05	.21600000E+06	0.	.23000000E+00
206	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	.35000000E+03
211	.34300000E+00	.57432000E-02	.88243000F-02	.85000000E+05	.93500000E+05
216	.97900000E+05	.10000000E+06	.10100000E+06	.57432000E-02	.88243000E-02
221	.85000000E+05	.93500000E+05	.97900000E+05	.10000000E+06	.10100000E+06
226	.10650000E+06	.64000000E+05	.20200000E+06	0.	.23000000E+00
231	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 15 - - RECORD 55 ***

MATL NO 15 9NI-4CO-.2C STEEL REF. IIB-9 MATERIALS MANUAL
BAR,SHEET,PLATE,FORGING

1	.15000000E+02	.28300000E+00	.29600000E+08	.11100000E+08	.65000000E+00
6	.75000000E+00	.30000000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.30000000E+00	.47000000E-02	.83510000E-02	.13912000E+06	.16050000E+06
116	.17450000E+06	.18300000E+06	.18800000E+06	.47000000E-02	.83510000E-02
121	.13912000E+06	.16050000E+06	.17450000E+06	.18300000E+06	.18800000E+06
126	.19000000E+06	.11800000E+06	.29800000E+06	0.	.28000000E+00
131	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 16 - - RECORD 56 ***

MATL NO 16 17-4 PH STEEL BAR,FORGING REF.BRIHN TABLE B1.1

1	.16000000E+02	.28200000E+00	.27500000E+08	.11000000E+08	.45000000E+00
6	.63100000E+00	.33300000E+00	0.	0.	0.
106	0.	0.	0.	0.	.80000000E+02
111	.27200000E+00	.47270000E-02	.80000000E-02	.13000000E+06	.14800000E+06
116	.15700000E+06	.16200000E+06	.16500000E+06	.47270000E-02	.80000000E-02
121	.13000000E+06	.14800000E+06	.15700000E+06	.16200000E+06	.16500000E+06
126	.18000000E+06	.12000000E+06	.30000000E+06	0.	.28000000E+00
131	.70000000E+00	.50000000E+00	.10000000E+01	.10000000E+01	0.

*** MATERIAL NUMBER 17--RECORD 57 ***

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    MATL NO 17   RENE 41  PLATE T. IS GREATER THAN 0.187  4/2/73
DATA ESTIMATED FROM MIL-HDBK-5B  PP. 6-75 TO 6-81  EXPOSURE UP TO 1
      1 17.0          0.298         31600000.0    12100000.0    0.65
      6 0.700         0.300
    110 80.0          0.31          0.00275       0.0056        86000.0
    115 97000.0       103800.0      109000.0      113000.0      0.00275
    120 0.0056        86000.0       97000.0       103800.0      109000.0
    125 113000.0      170000.0      118000.0      253000.0
    130 0.28          0.7           0.5           1.0           1.0
    135 400.0         0.31          0.0028        0.0057        83000.0
    140 94000.0       101000.0      106000.0      109500.0      0.0028
    145 0.0057        83000.0       94000.0       101000.0      106000.0
    150 109500.0      158000.0      107400.0      240000.0
    155 0.28          0.7           0.5           1.0           1.0
    160 800.0         0.31          0.003         0.0059        82000.0
    165 93000.0       100000.0      104500.0      108000.0      0.003
    170 0.0059        82000.0       93000.0       100000.0      104500.0
    175 108000.0      153000.0      106000.0      227700.0
    180 0.28          0.7           0.5           1.0           1.0
    185 1200.0        0.31          0.0033        0.0063        81000.0
    190 92000.0       98500.0       103000.0      107000.0      0.0033
    195 0.0063        81000.0       92000.0       98500.0       103000.0
    200 107000.0      148000.0      105200.0      215000.0
    205 0.28          0.7           0.5           1.0           1.0
    210 1400.0        0.31          0.003         0.0058        67000.0
    215 75500.0       81000.0       85000.0       88000.0       0.003
    220 0.0058        67000.0       75500.0       81000.0       85000.0
    225 88000.0       127500.0      105000.0      202000.0
    230 0.28          0.7           0.5           1.0           1.0
    235 1600.0        0.31          0.0022        0.00475       37000.0
    240 43000.0       46000.0       47800.0       48500.0       0.0022
    245 0.00475       37000.0       43000.0       46000.0       47800.0
    250 48500.0       86700.0       64900.0       121400.0
    255 0.28          0.7           0.5           1.0           1.0
```

*** GENERAL DATA - - RECORD 11 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415927E+01
16	.17453242E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.25000000E+00	0.	.14142136E+01
26	.32174049E+02	.18000000E+03	.17320510E+01	.25000000E+01	.13333330E+01
31	.15000000E+01	.12000000E+01	.20000000E+01	0.	0.
81	.36089239E+02	.21162200E+04	.68755900E-02	.52559100E+01	.65616880E+02
86	.20805560E+02	.47268000E+03	.10498688E+03	.11434500E+03	.38997000E+03
91	-.34163400E+02	.54864100E+00	.18131000E+02	.15361900E+01	.41157000E+03
96	-.12201200E+02	.15419948E+03	.51867000E+03	.35661600E+01	.38997000E+03
101	.30400000E-05	.53300000E+02	.14000000E+01	.75000000E-01	.13500000E+01
106	.30000000E+00	.50000000E+00	.46000000E+03	.12530000E+02	.15650000E+02
111	.51800000E+02	.80000000E+00	.50000000E-01	.40000000E+03	.10190560E+01
116	.28915600E-01	.13501120E+01	.66431900E+00	.15000000E+01	.60262700E-02
121	.80725000E-01	.31650300E+01	.15885240E+01	.11000000E+04	.25000000E+01
126	.77047600E+00	.14825150E+00	.43717580E+01	.21149690E+01	.90000000E+03
131	.15381160E+01	.30296970E+00	.48723350E+00	.46531260E+00	.70000000E+03
141	.16000000E+01	.98400000E+00	.74000000E-02	.26300000E-01	.20000000E+04
146	.97500000E+00	.97500000E+00	.97500000E+00	0.	0.
151	.20000000E+01	.10000000E+02	.50000000E+00	.40000000E+01	.15000000E+01
156	.10000000E+02	.50000000E+00	.10000000E+01	.25000000E+01	.12000000E+02
161	.15000000E-01	.40000000E+00	.95000000E+00	.50000000E-03	.50000000E+01
166	.60000000E+00	.80000000E+00	.10000000E+01	.13500000E+01	.25000000E+00
171	.50000000E+03	.64200000E-02	.43000000E+00	.41400000E+00	.16800000E+00
176	.89600000E+00	.43000000E-01	.12100000E+00	.25000000E-01	.63270000E+02
181	.10000000E+01	.43000000E+00	.37500000E+00	.12200000E+00	.87300000E+00
186	.35700000E+00	.48900000E+00	.39000000E-01	.13720000E+02	.10000000E+01
191	.43000000E+00	.41160000E+00	.77560000E+00	.21360000E+00	.21920000E+00
196	.85000000E+00	.15000000E+00	.11240000E+01	.17200000E+00	.47000000E-01
201	.65000000E-01	.24100000E+00	.52000000E-01	.10000000E+01	.55000000E+00
206	.48000000E+00	0.	.53200000E+00	.12800000E+00	.12400000E+00
211	.38000000E-01	.17800000E+00	.72400000E+00	.27400000E+00	.29000000E+00
216	0.	.10000000E+00	.70000000E+00	.33000000E+00	.25000000E+00
221	.20000000E+00	.50000000E+00	.50000000E+03	0.	0.
701	.31000000E+02	0.	0.	0.	.10000000E+01
706	0.	0.	.10000000E+01	0.	0.

721	.31800000E+06	0.	.31610000E+06	.93165000E+03	.25750000E+06
726	0.	.30000000E+05	.12000000E+05	0.	0.
731	.25000000E+01	.20000000E+01	-.10000000E+01	.20000000E+01	.10000000E+01
736	-.50000000E+00	.14700000E+03	.10300000E+03	.60000000E+01	.10000000E+02
741	.28000000E+02	.12000000E+02	.61700000E+02	.41500000E+02	.92000000E+03
746	.99177000E+03	.35475000E+03	.96000000E+02	.10500000E+03	0.
751	.57400000E+00	.68000000E+00	.81400000E+00	.85000000E+00	.85000000E+00
756	0.	.10000000E+05	.20000000E+05	.22500000E+05	.50000000E+05
761	.26000000E-01	.26000000E-01	.26000000E-01	.20000000E-01	.20000000E-01
786	0.	0.	0.	.80000000E+04	0.
796	0.	.37140000E+04	0.	0.	.18759000E+05
801	0.	0.	0.	.35770000E+04	.14400000E+03
806	.21200000E+03	.13800000E+04	.23600000E+03	.32000000E+03	.55400000E+03
811	.11220000E+04	.14890000E+04	.26500000E+04	.23470000E+04	0.
816	.33200000E+04	.26480000E+04	0.	.95000000E+02	.11300000E+03
821	.86000000E+03	.21640000E+04	.41600000E+03	0.	.23600000E+03
836	0.	.11218000E+04	0.	0.	.77410000E+03
841	0.	0.	0.	.84567000E+03	.80390000E+03
846	.84080000E+03	.95340000E+03	.66620000E+03	.76830000E+03	.84470000E+03
851	.54500000E+03	.88190000E+03	.65750000E+03	.59240000E+03	0.
856	.59680000E+03	.80990000E+03	0.	.12280000E+04	.30000000E+03
861	.35130000E+03	.10019000E+04	.75361000E+03	0.	.85297000E+03
871	.70000000E+05	0.	0.	.67640000E+05	.49040000E+05
881	.88700000E+03	0.	0.	.85800000E+03	.10473400E+04
891	.45200000E+03	.12920000E+04	0.	0.	.78000000E+02
896	.32500000E+03	.41500000E+03	.94800000E+03	0.	0.
911	.10000000E+01	0.	0.	.10000000E+01	.10000000E+01
921	.10000000E+01	0.	0.	.97191000E+00	.10000000E+01
931	.10000000E+01	0.	0.	.41528680E+00	.57279770E+00
941	.32000000E+03	.40300000E+03	.17180000E+04	.40000000E+01	0.
951	.30028300E+04	.85197500E+01	.41746600E+00	.28109000E+02	0.
956	0.	.77700000E+02	.64876000E+03	0.	0.
961	.28400000E+03	.16327400E+00	.61246700E+00	0.	0.
966	.37750000E+00	0.	0.	0.	0.
986	0.	.92000000E+02	.64100000E+03	.32300000E+00	.50000000E+02
1001	.48300000E+03	.52480000E+01	.36988700E+00	.25000000E+02	.25000000E+00
1006	0.	0.	.17181700E+04	0.	0.
1011	.55866000E+03	.10500000E+00	.10000000E+01	0.	0.
1016	.40000000E+00	0.	0.	0.	0.

1041	.41600000E+03	.12410000E+01	.6n893400E+00	.35000000E+02	.25000000E+00
1046	0.	0.	.15448000E+04	0.	0.
1051	.28600000E+03	.13000000E+00	.10000000E+01	0.	0.
1056	.40000000E+00	0.	0.	0.	0.
1081	.10000000E+01	.19000000E+02	0.	0.	0.
1086	.23040000E+03	.28000000E+03	.35000000E+03	.44000000E+03	.12000000E+04
1091	.13000000E+04	.14000000E+04	.15200000E+04	.16800000E+04	.18179000E+04
1096	.20000000E+03	.20000000E+03	.20000000E+03	.20000000E+03	.20000000E+03
1101	.22500000E+03	.24000000E+03	.25200000E+03	.26200000E+03	.27000000E+03
1106	0.	.10120000E+03	.15020000E+03	.17000000E+03	.17000000E+03
1111	.16800000E+03	.15850000E+03	.13370000E+03	.75700000E+02	0.
1116	0.	.10120000E+03	.15020000E+03	.17000000E+03	.17000000E+03
1121	.16800000E+03	.15850000E+03	.13370000E+03	.75700000E+02	0.
1126	0.	.31800000E+03	.47200000E+03	.53400000E+03	.53400000E+03
1131	.52800000E+03	.49800000E+03	.42000000E+03	.23800000E+03	0.
1136	.27200000E+03	.34900000E+03	.35300000E+03	.45200000E+03	.60000000E+03
1141	.73200000E+03	.73600000E+03	.84600000E+03	.95600000E+03	.96000000E+03
1146	.99600000E+03	.10000000E+04	.11420000E+04	.12920000E+04	.13980000E+04
1151	.16390000E+04	.16430000E+04	.17260000E+04	.17300000E+04	0.
1161	.40000000E+01	.12000000E+01	.20000000E+01	.16480000E+04	.40000000E+01
1166	.60000000E+01	.40000000E+01	.21000000E+05	.46900000E+04	.18700000E+03
1171	.45000000E+02	.88200000E+02	.64800000E+03	.28500000E+03	.19271000E+03
1176	.73700000E+03	.46000000E+03	.18552000E+03	0.	.70000000E+02
1181	0.	.17100000E+03	.40000000E+02	.17100000E+03	.40000000E+02
1186	.10000000E+00	0.	0.	0.	0.
1201	.10000000E+01	.30000000E+01	0.	0.	0.
1211	0.	.60000000E+01	.12000000E+02	0.	0.
1241	.47000000E+02	.50000000E+02	.52500000E+02	0.	0.
1251	.47000000E+02	.50000000E+02	.52500000E+02	0.	0.
1261	.14770000E+03	.15710000E+03	.16500000E+03	0.	0.
1291	.20000000E+01	.10000000E+02	0.	0.	0.
1296	0.	0.	0.	.66000000E+02	.66000000E+02
1301	0.	.10000000E+02	.20000000E+02	.40000000E+02	.60000000E+02
1306	.12000000E+03	.14000000E+03	.16000000E+03	.18000000E+03	.19921800E+03
1331	.48000000E+02	.63000000E+02	.66000000E+02	.66000000E+02	.66000000E+02
1336	.65500000E+02	.65000000E+02	.63500000E+02	.60000000E+02	.54000000E+02
1341	.48000000E+02	.63000000E+02	.66000000E+02	.66000000E+02	.66000000E+02
1346	.65500000E+02	.65000000E+02	.63500000E+02	.60000000E+02	.54000000E+02
1351	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
1356	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01

*** FATIGUE DATA - - RECORD 29 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415927E+01
16	.17453290E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.25000000E+00	0.	0.
51	.11200000E+01	.89300000E+00	.79200000E-01	.17900000E+00	.33100000E+01
56	.25000000E+00	.81400000E+02	.75000000E+00	.10000000E+09	.10000000E+07
61	.15000000E-01	.10000000E-02	.10000000E-01	-.16666670E+00	0.
76	0.	0.	.50000000E+00	.10000000E+10	.10000000E+01
81	.50000000E-01	0.	0.	0.	0.
106	0.	0.	.10000000E+02	0.	0.
111	0.	0.	.40000000E+01	.40000000E+01	.30000000E+01
116	.30000000E+01	.40000000E+01	.30000000E+01	0.	0.
1196	0.	0.	0.	0.	.10000000E+01
1201	.86000000E+01	0.	0.	0.	0.
1401	.20000000E+05	0.	0.	0.	0.

*** WING DATA - - RECORD 23 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415920E+01
16	.17453287E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.15000000E+01	.10500000E+01	.75000000E+00
26	.35500000E+00	.12500000E+00	.42920000E+00	.75000000E+00	.10000000E-02
31	.10100000E+01	.60000000E-01	.10000000E+02	.10000000E-01	.45000000E-01
36	.95000000E+00	.99500000E+00	.90000000E+00	.10000000E+00	.15000000E+01
41	.50000000E+00	.50000000E+00	.25000000E+00	.75000000E+00	.83000000E+00
46	.17000000E+00	.50000000E+01	.14000000E+02	.20000000E+01	.25000000E+00
51	.66666667E+00	.20000000E-02	.13333300E+01	.78539800E+00	.50000000E+00
56	.15000000E+01	.25000000E+00	.25000000E+00	.75000000E+00	.15000000E+01
61	.15600000E+00	.13333000E+01	.12500000E+01	.10000000E-03	.50000000E+02
66	.25000000E+02	.50000000E+00	.70000000E+00	.10750000E+01	.65600000E+00
71	.10300000E+01	.91100000E+00	.50000000E-01	.50000000E+00	.60000000E+01
76	.20000000E+01	.25000000E+01	.17386830E+02	.50000000E+00	0.
81	.31610000E+06	0.	0.	0.	.25000000E+01
86	.10000000E+01	.53000000E+03	.31610000E+06	.11694000E+06	0.
91	.11694000E+06	0.	.10000000E+01	0.	0.
106	0.	0.	0.	0.	.10000000E+01
111	.70000000E+00	.30000000E+00	.72500000E+00	.66667000E+00	.10000000E+01
116	.60000000E+00	.98500000E+00	0.	0.	0.
121	0.	.15000000E+01	0.	.92000000E+00	.12000000E+00
126	.63500000E+00	.37750000E+00	0.	.10000000E+01	.49369022E-01
131	-.14187151E+00	-.12342674E+00	.47136354E+00	.40410000E+00	.12000000E+00
136	.63500000E+00	.37750000E+00	.25000000E+00	.95000000E+03	0.
141	0.	.10000000E+01	.20000000E+01	.50000000E-01	0.
151	0.	0.	.20000000E+02	0.	.10000000E+01
156	.15000000E+01	.55000000E+01	0.	0.	0.
176	.64876000E+03	0.	0.	0.	0.
186	.10000000E+01	0.	0.	.85000000E+00	.10000000E+01
191	.10000000E+01	.98383560E+01	.72665000E+00	.44000000E+01	0.
201	0.	0.	0.	0.	.10000000E+01
206	.78000000E+02	.28500000E+03	.37200000E-01	.10000000E+01	.34160000E+05
211	.12000000E-01	0.	.41500000E+03	.94800000E+03	.28100000E-01
216	.10000000E+01	.24310000E+05	.12000000E-01	0.	0.

231	0.	.80000000E+00	.10000000E+01	.10000000E+01	.30025000E+04
236	.85200000E+01	.41750000E+00	.15540000E+03	0.	.30025000E+04
241	.85200000E+01	.25000000E+02	.16330000E+00	.41750000E+00	.61237000E+00
246	.15540000E+03	0.	0.	0.	.10000000E+01
251	.10000000E+01	.91840000E+00	0.	.10000000E+01	0.
256	0.	.40000000E+00	.60000000E+01	.80000000E+02	0.
271	.10000000E+01	0.	0.	0.	0.
286	0.	0.	0.	0.	.80000000E+00
291	0.	.10500000E+08	.39000000E+07	0.	.31610000E+06
296	.93200000E+03	.26000000E+11	.34000000E+11	.92000000E+05	.36600000E+03
301	.93200000E+03	.13000000E+10	.33000000E+11	.82500000E+00	0.
306	0.	.10500000E+08	.39000000E+07	.11500000E+01	0.
311	0.	.10000000E+01	.90000000E+00	.10000000E+01	.97500000E+00
316	.10000000E-02	0.	.10000000E+01	0.	0.
336	0.	0.	0.	0.	.30025000E+04
341	.85200000E+01	.41750000E+00	.15540000E+03	.16330000E+00	.61237000E+00
361	0.	.40000000E+01	.42600000E+00	.40000000E+01	.50000000E+00
366	.75000000E+00	.20000000E+01	.10000000E+01	.30000000E+01	.50000000E-01
371	.40000000E-01	.40000000E-01	.64000000E-01	.54000000E-01	.22000000E+02
376	.22000000E+02	.10000000E+01	.30000000E+01	.50000000E+00	.42500000E+01
381	.42500000E+01	.10000000E+01	.30000000E+01	0.	.10000000E+01
386	0.	.10000000E+01	.10000000E+01	0.	0.
391	.65000000E+00	.40000000E+00	.10000000E+01	0.	0.
396	.31250000E+00	.50000000E-01	.85000000E+00	0.	.12100000E+01
401	.40000000E+00	.14250000E+01	.50000000E+00	.10000000E+01	.20000000E+01
406	.20000000E-01	.10000000E+01	.59000000E+00	.31200000E+00	.10250000E+01
411	.10250000E+01	.97500000E+00	.97500000E+00	0.	0.
416	0.	0.	.87500000E+00	.87500000E+00	.60000000E+01
421	.60000000E+01	.20000000E-01	.17500000E+01	.20000000E+01	.10500000E+01
426	.10500000E+01	0.	0.	0.	0.
446	0.	0.	0.	0.	.10000000E+01
451	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.50000000E+00
456	.50000000E+00	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
471	.20000000E+01	.20000000E+01	.20000000E+01	.20000000E+01	.10000000E+01
476	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.22400000E+03
481	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
486	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
491	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
496	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.50000000E+00

501	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
516	0.	0.	0.	0.	.10000000E+01
521	0.	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
526	.14131250E+03	.78200000E+02	.25000000E-04	0.	.10000000E+01
531	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
536	.10000000E-01	0.	0.	0.	0.
551	.10000000E+00	.20000000E+00	.30000000E+00	.40000000E+00	.50000000E+00
556	.60000000E+00	.70000000E+00	.80000000E+00	.90000000E+00	.10000000E+01
561	.42500000E+01	.45000000E+01	.46700000E+01	.48600000E+01	.50800000E+01
566	.53500000E+01	.56900000E+01	.61000000E+01	.65800000E+01	.71500000E+01
571	.77500000E+01	.50000000E-01	.10000000E+03	0.	0.
596	0.	0.	0.	0.	.10000000E+01
601	.10000000E+01	.10000000E+01	.25000000E-01	.10750000E+01	.10750000E+01
606	.10750000E+01	.11000000E+01	.11000000E+01	.11000000E+01	.17500000E+01
611	.20000000E+01	.17500000E+01	.12500000E+01	.12500000E+01	.12500000E+01
616	.11000000E+01	.11500000E+01	.11500000E+01	.11500000E+01	.11000000E+01
621	.11500000E+01	.11500000E+01	.11500000E+01	.15000000E+01	.75000000E+00
626	.11500000E+01	.11500000E+01	0.	0.	0.
636	0.	0.	0.	.10000000E+01	.10000000E+01
641	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
646	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
651	0.	.12500000E+01	0.	.12500000E+01	0.
656	0.	0.	0.	0.	.15000000E+01
661	0.	0.	0.	0.	.40000000E+01
841	0.	.10500000E+01	.10500000E+01	.10500000E+01	.10500000E+01
846	.10500000E+01	.10500000E+01	.10500000E+01	.10500000E+01	.10500000E+01
851	.10500000E+01	.10500000E+01	.12000000E+01	.12000000E+01	.12000000E+01
856	.12000000E+01	.12000000E+01	.12000000E+01	.12000000E+01	.12000000E+01
861	.12000000E+01	.12000000E+01	.12000000E+01	0.	0.
931	.11750000E+01	.11500000E+01	.11250000E+01	.11100000E+01	.11000000E+01
936	.10900000E+01	.10800000E+01	.10700000E+01	.10600000E+01	.10500000E+01
941	.10400000E+01	.10750000E+01	.10650000E+01	.10550000E+01	.10450000E+01
946	.10350000E+01	.10250000E+01	.10150000E+01	.10050000E+01	.99500000E+00
951	.98500000E+00	.97500000E+00	0.	0.	0.
1006	0.	0.	.10000000E+01	.10000000E+01	.10000000E+01
1011	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01
1016	.10000000E+01	.10000000E+01	.10000000E+01	0.	0.
1086	0.	0.	.10000000E+01	.10000000E+01	.10000000E+01
1091	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01

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1096    .10000000E+01    .10000000E+01    0.               0.               0.
1141    0.               0.               .15000000E+02    .20000000E+02    .20000000E+02
1146    .60000000E+01    .40000000E+01    .40000000E+01    .15000000E+02    .20000000E+02
1151    .20000000E+02    .60000000E+01    .40000000E+01    .40000000E+01    0.
1206    .10000000E+01    .80000000E+01    .15000000E+01    .77000000E-03    .80000000E+00
1211    .83000000E+00    .10000000E+00    .25000000E+00    .10000000E+00    0.
1216    .10000000E+01    .80000000E+01    .17500000E+01    .40000000E-03    .80000000E+00
1221    .54000000E+00    .10000000E+00    .25000000E+00    .10000000E+00    0.
1226    .10000000E+01    .80000000E+01    .15000000E+01    .40000000E-03    .80000000E+00
1231    .54000000E+00    .10000000E+00    .25000000E+00    .10000000E+00    0.
1236    .10000000E+01    .10000000E-01    .10000000E+01    .35000000E+00    .16500000E-01
1241    .14500000E+01    .10000000E+01    .70000000E+00    .95000000E+03    .10000000E+01
1246    0.               .10000000E+00    .25000000E+00    .10000000E+00    0.
1251    .10000000E+01    .10000000E-01    .10000000E+01    .35000000E+00    .14500000E-01
1256    .13500000E+01    .75000000E+00    .70000000E+00    .95000000E+03    .10000000E+01
1261    0.               .10000000E+00    .25000000E+00    .10000000E+00    0.
1266    .10000000E+01    .10000000E-01    .10000000E+01    .35000000E+00    .14500000E-01
1271    .13500000E+01    .75000000E+00    .70000000E+00    .95000000E+03    .10000000E+01
1276    0.               .10000000E+00    .25000000E+00    .10000000E+00    0.
1281    .10000000E+01    .10000000E+01    .20000000E+01    .20000000E+01    .20000000E+01
1286    .20000000E+01    .20000000E+01    .10000000E+01    .10000000E+01    .10000000E+01
1291    .10000000E+01    .10000000E+01    .10000000E+01    .10000000E+01    0.
1366    .60000000E+01    .60000000E+01    .12000000E+02    .20000000E+01    .10000000E+01
1371    .30000000E+01    .50000000E+01    .50000000E+00    .25000000E+00    .40000000E+01
1376    .12000000E+02    .20000000E+01    .10000000E+01    .60000000E+01    .12000000E+02
1381    .20000000E+01    .10000000E+01    .40000000E+01    .80000000E+01    .20000000E+01
1386    .10000000E+01    .30000000E+01    .60000000E+01    .50000000E+00    .25000000E+00
1391    .30000000E+01    .50000000E+01    .50000000E+00    .25000000E+00    .30000000E+01
1396    .40000000E+01    .50000000E+00    .25000000E+00    .20000000E+01    0.
1401    .59207900E+00    .44276300E-04    0.               .10000000E+01    .35332000E+05
1406    .97110000E+03    .20786000E+05    .30570000E+00    .42561000E+01    .68750000E-05
1411    .41023570E-02    .11171853E+04    .10000000E-08    .10000000E+01    .10000000E-01
1416    .10000000E+01    0.               0.               0.               0.
1431    0.               -.11160000E+01   .14800000E+04    .22500000E+02    .80000000E+00
1436    .40000000E+00    .70000000E+00    .98481000E+00    .17365000E+00    .14814815E+00
1441    .10000000E+01    .10000000E-04    0.               0.               0.
1456    0.               0.               0.               0.               .10010000E+01
1461    .99900000E+00    0.               0.               0.               0.
1466    0.               0.               0.               0.               .60000000E+00
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1471	.13000000E+01	.15600000E+00	.10000000E+01	.10000000E+01	.18800000E+00
1476	.25000000E+00	.37500000E+00	.50000000E+00	.80000000E-01	.15600000E+00
1481	.12100000E+01	.13750000E+01	.10500000E+01	.40000000E+01	.37500000E+00
1486	.10000000E+01	.12500000E+00	.13300000E+01	.17500000E+01	.50000000E+00
1491	.25000000E+01	.10000000E+01	.10000000E+01	.20000000E+01	.13000000E+06
1496	.28800000E+00	.45000000E+01	0.	0.	0.
1526	0.	0.	0.	0.	.10000000E+01
1531	.14500000E+00	.10000000E+01	.55100000E+00	.32000000E+00	.10000000E+01
1536	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1541	.10000000E-01	.10000000E+01	.12500000E+00	.10000000E+01	.45000000E+00
1546	.15000000E+01	.10000000E+01	.41300000E+00	.32000000E+00	.66700000E+00
1551	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1556	.10000000E-01	.75000000E+00	.12500000E+00	.10000000E+01	.10000000E+01
1561	.90000000E+01	.17250000E+01	.77000000E-03	.80000000E+00	.33000000E+00
1566	.80000000E+00	.25000000E+00	.10000000E+00	.25000000E+00	.10000000E+00
1571	.10000000E-01	.50000000E+00	.12500000E+00	.10000000E+01	.83000000E+00
1576	0.	0.	0.	0.	.10000000E+01
1581	.10500000E+03	.39000000E+03	.30000000E+03	.78500000E+00	.33000000E+03
1586	.91000000E+00	0.	.13610000E+01	0.	0.
1591	0.	0.	0.	0.	.30000000E+01
1596	.42000000E+03	.64000000E+03	.83200000E+00	.79000000E+00	.92000000E+00
1601	.89500000E+00	0.	.14750000E+01	0.	0.
1606	0.	0.	0.	0.	.10000000E+01
1611	.10000000E+01	.95000000E+02	.40000000E+03	.93500000E+00	.68400000E+00
1621	0.	0.	0.	.30300000E+03	.77000000E+00
1626	.93500000E+00	.68400000E+00	0.	.10000000E+01	.10000000E+01
1631	.10000000E+01	.41000000E+03	.65000000E+03	.76000000E+00	.70500000E+00
1641	0.	0.	0.	.82900000E+00	.79500000E+00
1646	.76000000E+00	.70500000E+00	0.	.10000000E+01	0.
1666	0.	0.	0.	0.	.40000000E+01
1671	.10000000E+01	.66500000E+03	.95800000E+03	.79200000E+00	.71500000E+00
1681	0.	0.	0.	.80200000E+00	.72500000E+00
1686	.80200000E+00	.72500000E+00	0.	.10000000E+01	0.
1731	.10000000E+01	.80000000E-02	.80000000E+00	.19500000E+01	.10000000E+00
1736	.25000000E+00	.10000000E+00	.10000000E-01	.10000000E+01	.12500000E+00
1741	.10000000E+01	.45000000E+00	.15000000E+00	0.	.10000000E-02
1746	.69000000E+00	.14400000E+02	.25000000E+00	0.	.10000000E+01
1751	.12500000E+01	.15000000E+01	.17500000E+01	.10000000E+00	.25000000E+00
1756	.10000000E+00	.10000000E-01	.25000000E+00	.12500000E+00	.10000000E+01

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1761    .25000000E+00   .12500000E+00   0.              0.              0.
1766    .10000000E+01   .18250000E-01   .35000000E+00   .15500000E+01   .50000000E+00
1771    .25000000E+00   .10000000E+00   .25000000E+00   .10000000E+00   .10000000E-01
1776    .10000000E+00   .12500000E+00   .10000000E+01   .10000000E+00   .50000000E-01
1781    0.              0.              0.              0.              .14000000E+01
1786    .77300000E+00   .35000000E+00   .30690000E+00   0.              .15000000E+01
1791    .24420000E-01   .35000000E+00   .13627000E+01   0.              .10000000E+00
1796    .28000000E+00   .40000000E+00   .55000000E+00   .10000000E+00   .10000000E+00
1801    .10000000E+00   .10000000E+00   .15000000E+00   .20000000E+00   .20000000E+00
1806    .10000000E+00   .10000000E+00   .10000000E+00   .47500000E+00   .40000000E+00
1811    .30000000E+00   .25000000E+00   .47500000E+00   .47500000E+00   .47500000E+00
1816    0.              0.              0.              0.              .10000000E+01
1821    .86000000E+03   .78000000E+02   .95000000E+03   .70000000E+00   .65000000E+00
1826    .66000000E+03   .40000000E+00   .25000000E+00   0.              0.
1851    0.              0.              0.              0.              .78080000E+04
1856    .28500000E+03   -.18200000E+00  .83000000E+02   .10000000E+01   0.
1861    0.              0.              .19600000E+03   .70000000E+02   .70000000E+02
1866    .10000000E+01   .78080000E+04   .46000000E+03   -.22200000E+00  .81000000E+02
1871    .10000000E+01   0.              0.              0.              .19600000E+03
1876    .70000000E+02   .70000000E+02   .10000000E+01   0.              0.
1901    0.              0.              0.              .10000000E+01   0.
1916    .10000000E+01   0.              0.              0.              0.
1936    0.              0.              0.              .75000000E+00   .75000000E+00
1941    .75000000E+00   .10000000E+01   .75000000E+00   .10000000E+01   .10000000E+01
1946    .10000000E+01   .10000000E+01   .50000000E+00   .10000000E+04   .30000000E+01
1951    .25000000E+01   .15000000E+01   .12500000E+01   0.              0.
1956    .10000000E+01   .77000000E-03   .80000000E+00   .83000000E+00   .50000000E+00
1961    0.              .10000000E+00   .25000000E+00   .10000000E+00   0.
1966    0.              0.              0.              0.              .11550000E+00
1971    .53300000E-01   .53300000E-01   .68700000E-01   .53300000E-01   .50000000E-01
1976    .40000000E-01   .50000000E-01   .75000000E+00   .80000000E+00   .45000000E+00
1981    .80000000E+00   0.              0.              0.              0.
2006    0.              0.              0.              .40500000E+03   0.
2016    0.              0.              0.              0.              .79000000E+02
2031    0.              .40500000E+03   .95969000E+03   0.              0.
2041    0.              .13080000E+00   .11050000E+00   .10000000E+00   0.
```

*** FUSELAGE DATA - - RECORD 24 ***

1	.10000000E+01	.20000000E+01	.30000000E+01	.40000000E+01	.50000000E+01
6	.60000000E+01	.70000000E+01	.80000000E+01	.90000000E+01	.10000000E+02
11	.11000000E+02	.12000000E+02	.20000000E+02	.10000000E+04	.31415927E+01
16	.17453292E-01	.14400000E+03	.24000000E+02	.50000000E+00	.15000000E+01
21	.33333333E+00	.95000000E+00	.25000000E+00	0.	.14142136E+01
26	.32174049E+02	.18000000E+03	.17320510E+01	.25000000E+01	.13333333E+01
31	0.	0.	.50000000E+00	.50000000E+00	.25000000E+00
36	.40000000E+01	.40000000E+01	.15000000E+01	0.	.62500000E-04
41	.50000000E+01	.42600000E+00	.40000000E+01	.75000000E+01	0.
46	.90000000E+00	.75000000E+00	.50000000E-02	.20000000E+01	.20000000E+01
51	.50000000E-01	.32000000E-01	.14500000E+00	.50000000E-01	.32000000E-01
56	.10000000E+01	.50000000E-01	.25000000E-01	.10000000E+01	.90000000E+00
61	.87500000E+00	.32634338E+00	.50000000E-01	0.	0.
81	.14797570E+04	.52187000E+02	.61985800E+00	.14651750E+04	.50766950E+02
86	.64344120E+00	.29071940E-02	.19965900E+03	.48516740E+00	.11664560E+01
91	.48841200E+00	.40372030E+00	.14000000E+01	.60000000E+00	.48492710E+00
96	.55518410E+00	.16869440E+00	.21699920E-01	.96369400E-03	.11300000E+00
101	.90000000E+01	.52200000E+00	.29000000E-08	.28108000E+01	.52290000E+01
106	.60000000E+00	.16460000E+01	.89400000E+00	.39400000E+00	.12880000E+01
111	.13769000E+01	.24840000E+01	.19840000E+01	.44670000E+01	.14430000E+00
116	.17562200E+00	.13411000E-01	.12000000E+01	.10000000E+01	.78000000E+00
121	.65000000E+00	.15158600E+03	.18695000E+00	.58800000E+01	.20000000E-02
126	.75238000E-03	0.	.16000000E+00	.85000000E+00	.76118200E+03
131	.12500000E+00	.31200000E+00	.44440000E+00	.22400000E+03	.66670000E+00
136	.20000000E+01	.12000000E+02	.11000000E+01	.10000000E+01	.10000000E+02
141	.21500000E+03	.21500000E+03	.16900000E+01	.26000000E-02	.21580000E+01
146	.14800000E+04	.10500000E+05	.23000000E+00	.34800000E+00	.10258700E+00
151	.52500000E-01	.25000000E-02	.15740000E+03	.25000000E+00	.80000000E+02
156	.64000000E+03	.25000000E+03	.12500000E+03	.17500000E+00	.10000000E+02
161	.14000000E+02	.22100000E+01	.60000000E+01	.15000000E+01	.24000000E+02
166	.80000000E+01	.80000000E+01	.90000000E+01	.11450000E+02	.27600000E+01
171	.27600000E+01	.17500000E+01	.23500000E+01	.30600000E-02	.13000000E+01
176	.80000000E+00	.53000000E+01	.50000000E+01	.29000000E+01	.95000000E+01
181	0.	.12210000E+02	.93300000E+00	.40000000E+01	.55000000E+01
186	.25000000E+01	.15500000E+01	.90000000E-03	.13000000E+01	.17000000E+01
191	.19000000E+01	.15000000E+02	.20000000E-01	.17000000E+03	.19500000E+02

196	.19500000E+02	.10000000E+02	.48000000E+02	.24000000E+02	0.
201	.23000000E+03	.11000000E+02	.10000000E+02	.12000000E+03	.10000000E+02
206	.79449500E+03	.20673200E+04	.10450000E+02	.28000000E+00	.10000000E+02
211	.10000000E+03	.25000000E+02	.50000000E+01	.29300000E+01	.50000000E+01
216	.25000000E+01	.25000000E+01	.22000000E+01	.15000000E+01	.50000000E+00
221	.10000000E+00	.35000000E-01	.26000000E-01	.50000000E-01	.66000000E+00
226	.48000000E+01	.33000000E+01	.22700000E+01	.14160000E+02	.14131250E+03
231	.79200000E+02	.25000000E-04	.38000000E-03	.20000000E+02	.20000000E+00
236	.10000000E+00	.77000000E+00	0.	0.	0.
241	.31000000E+02	.19000000E+02	.10000000E+01	.20000000E+01	0.
246	.40000000E+01	.50000000E+01	.50000000E+01	.40000000E+01	.10000000E+02
251	0.	.40000000E+01	0.	0.	.60000000E+01
256	.60000000E+01	.10200000E+04	0.	0.	0.
266	0.	0.	0.	.66326500E+00	0.
271	.12200000E+01	.11880000E+01	.10000000E+01	.12580000E+01	.11000000E+01
276	.11000000E+01	0.	0.	0.	0.
291	.23040000E+03	.28000000E+03	.35000000E+03	.44000000E+03	.12000000E+04
296	.13000000E+04	.14000000E+04	.15200000E+04	.16800000E+04	.18179000E+04
301	.20000000E+03	.20000000E+03	.20000000E+03	.20000000E+03	.20000000E+03
306	.22500000E+03	.24000000E+03	.25200000E+03	.26200000E+03	.27000000E+03
311	0.	.10120000E+03	.15020000E+03	.17000000E+03	.17000000E+03
316	.16800000E+03	.15850000E+03	.13370000E+03	.75700000E+02	0.
321	0.	.10120000E+03	.15020000E+03	.17000000E+03	.17000000E+03
326	.16800000E+03	.15850000E+03	.13370000E+03	.75700000E+02	0.
331	0.	.31800000E+03	.47200000E+03	.53400000E+03	.53400000E+03
336	.52800000E+03	.49800000E+03	.42000000E+03	.23800000E+03	0.
361	.27200000E+03	.34900000E+03	.35300000E+03	.45200000E+03	.60000000E+03
366	.73200000E+03	.73600000E+03	.84600000E+03	.95600000E+03	.96000000E+03
371	.99600000E+03	.10000000E+04	.11420000E+04	.12920000E+04	.13980000E+04
376	.16390000E+04	.16430000E+04	.17260000E+04	.17300000E+04	0.
441	.50000000E+00	.50000000E+00	.50000000E+00	.50000000E+00	0.
446	0.	.82353000E+00	.82353000E+00	.82353000E+00	0.
451	0.	0.	0.	.68400000E+00	.59500000E+00
456	.44600000E+00	.44600000E+00	.36000000E+00	.36000000E+00	0.
466	0.	-.10000000E+01	.10000000E+01	.10000000E+01	0.
481	-.56000000E+02	.56000000E+02	0.	0.	0.
491	0.	0.	0.	-.10000000E+01	.10000000E+01
496	.10000000E+01	.10000000E+01	.10000000E+01	.10000000E+01	0.
561	.10000000E+01	0.	0.	.10000000E+01	0.

```
 571     0.                    0.                    0.                    0.                     .10000000E+01
 601    -.86000000E+01        -.86000000E+01        -.86000000E+01        -.86000000E+01        -.86000000E+01
 606    -.86000000E+01        -.86000000E+01        -.86000000E+01        -.86000000E+01        -.86000000E+01
 611    -.86000000E+01        -.86000000E+01        -.86000000E+01        -.86000000E+01        -.86000000E+01
 621     0.                    0.                     .10000000E+01         .10000000E+01         .10000000E+01
 826     .10000000E+01         .10000000E+01         .10000000E+01         .10000000E+01        0.
 831     0.                    0.                     .10000000E+01         .10000000E+01         .10000000E+01
 836     0.                    0.                    0.                    0.                    0.
 841     .10000000E+01         0.                    0.                    0.                     .10000000E+01
 846     .10000000E+01         .10000000E+01         .10000000F+01         .10000000E+01         .10000000E+01
 856     .10000000E+01        0.                    0.                     .10000000E+01         .10000000E+01
 861     0.                    .10000000E+01         .10000000E+01        0.                    0.
 871     0.                   0.                     .30940000E+03         .30940000E+03         .10200000E+04
 876     .38530000E+03         .44280000E+03         .31900000E+03        0.                    0.
 881     0.                    0.                     .96860000E+03         .35380000E+03         .15608000E+04
 886     0.                    0.                    0.                     .13568000E+04        0.
 891     .14110000E+04         0.                    0.                    0.                     .81090000E+03
 896     .84250000E+03         .12180000E+04         .12000000E+04         .46800000E+03         .85000000E+03
 906     .97180000E+03        0.                    0.                     .87200000E+03         .87200000E+03
 911     0.                    .88240000E+03         .87200000E+03        0.                    0.
 921     0.                   0.                     .29000000E+02         .30000000E+02         .30000000E+01
 926     .51000000E+02         .29000000E+02         .40000000E+02         .20000000E+01        0.
 931     .60000000E+01         .60000000E+01         .40000000E+01        0.                     .18300000E+03
 941     0.                   0.                     .16300000E+03         .32900000E+02         .38530000E+03
 946     0.                   0.                    0.                    0.                     .10850000E+03
 951     .12700000E+03        0.                     .65700000E+02         .77500000E+02         .12200000E+03
 956     0.                   0.                    0.                    0.                     .60500000E+01
 961     .40000000E+01         .61670000E+01         .30000000F+01         .21200000E+02         .20000000E+01
 966     .12200000E+02         .10000000E+01        0.                    0.                    0.
 971     0.                   0.                     .70000000E+03        0.                    0.
 976     .84100000E+03         .20000000E+01         .71250000E+03        0.                    0.
1001     .64876000E+03         .73400000E+03         .95800000E+03        0.                     .77700000E+02
1006     .28400000E+03        0.                    0.                    0.                    0.
1011     0.                   0.                     .16410000E+04         .17280000E+04        0.
1016     .28600000E+03         .10000000E+01        0.                    0.                     .28000000E+02
1026     .35475000E+03         .35100000E+03         .99800000E+03         .28000000E+02         .10500000E+03
1031     .13000000E+03         .99177000E+03         .96000000E+02         .10580000E+04        0.
1036     .64500000E+02         .14475000E+03        0.                    0.                    0.
1041     .40000000E+01         .35130000E+03        0.                     .27310760E+03         .16327400E+00
1046     0.                    .30287862E+03
```

OUTPUT TABLES AND CONTROLS

DATA MANAGEMENT MODULE

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLA00	Title page for data management module
42	(2,0)	Data Manage.	SPDALT	Speed altitude profile tables
43	(2,0)	Data Manage.	DSGNPR	Speed profile design constants
44	(2,0)	Data Manage.	QUIKIE	S array
46	(2,0)	Data Manage.	PRTOWE	Distribution of operational weight empty items between structural components
46	(2,0)	Data Manage.	PRTOWE	Expendable useful load table
45	(2,0)	Data Manage.	AVDINR	Total vehicle and component weights, CG, and inertia data RT, RW, RH, RV, RA, and RO arrays
48	(2,0)	Data Manage.	AVDATA	S array
47	(2,0)	Data Manage.	DCCNTL	WD array, data to be processed into Wing, H-tail and V-tail variable input data blocks by wing and empennage module

OUTPUT TABLES AND CONTROLS

DATA MANAGEMENT MODULE (CONCL)

IP	Overlay	Module	Subroutine	Description
47	(2,0)	Data Manage.	DMAXLD	Shear, moment and torque for Wing and contents
47	(2,0)	Data Manage.	DMAXLD	Shear, moment and torque for H-tail and contents
47	(2,0)	Data Manage.	DMAXLD	Shear, moment and torque for V-tail and contents
49	(2,0)	Data Manage	DATAIN	TCOM array, vehicle geometry and misc data dump
47	(2,0)	Data Manage.	DATAIN	BC array, loads data

```
                                                    ** OLAY00 - IP(40) *

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT     AUGUST 1973
C 141 TEST CASE                  ---NO. 1 ---


                          **** DATA MANAGEMENT (OVERLAY 2) ****
```

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973 ** SPDALT - IP(42) *
C 141 TEST CASE ---NO. 1 ---

*** SPEED ALTITUDE PROFILE TABLES ***

STANDARD ATMOSPHERE

ALTITUDE FEET	TEMPERATURE DEG RANKINE	DENSITY PCF	PRESSURE PSF	G FT/SEC SQ	SPEED OF SOUND FT/SEC
0.0	518.670	.0765495	2116.22	32.174	1115.90
5000.0	500.839	.0659604	1760.79	32.159	1096.29
10000.0	483.008	.0565301	1455.33	32.144	1076.35
15000.0	465.178	.0481677	1194.27	32.128	1056.04
20000.0	447.347	.0407862	972.49	32.113	1035.36
21250.0	442.889	.0390844	922.63	32.109	1030.13
22500.0	438.431	.0374374	874.85	32.106	1024.87
36250.0	389.970	.0225459	469.04	32.064	965.94
50000.0	389.970	.0116530	242.21	32.022	965.31

PROFILE TABLE

ALT. FEET	V(H) MN	Q(H) PSF	M2 MN	PT2/PTO	RAM T DEG R	PT2 PSI	P2 PSI	V(L) MN	Q(L) PSF	M2 MN	PT2/PTO	RAM T DEG R	PT2 PSI	P2 PSI
0.0	.57	488.07	.50	1.0000	552.85	18.37	15.49	.60	533.29	.50	1.0000	556.01	18.74	15.80
5000.0	.62	479.57	.50	1.0000	539.81	15.89	13.40	.65	520.53	.50	1.0000	543.14	16.24	13.69
10000.0	.68	471.06	.50	1.0000	527.68	13.77	11.61	.71	507.77	.50	1.0000	531.16	14.09	11.88
15000.0	.74	461.06	.50	1.0000	516.49	11.96	10.08	.77	494.05	.50	1.0000	520.16	12.26	10.34
20000.0	.81	451.06	.50	1.0000	506.63	10.44	8.80	.84	480.33	.50	1.0000	510.48	10.72	9.04
21250.0	.83	446.76	.50	1.0000	504.16	10.08	8.50	.85	471.93	.50	1.0000	507.61	10.33	8.71
22500.0	.85	442.46	.50	1.0000	501.78	9.74	8.21	.87	463.52	.50	1.0000	504.80	9.95	8.39
36250.0	.85	237.22	.50	1.0000	446.32	5.22	4.40	.87	248.51	.50	1.0000	449.00	5.33	4.50
50000.0	.85	122.50	.50	1.0000	446.32	2.70	2.27	.87	128.33	.50	1.0000	449.00	2.75	2.32

** DSGNPR - IP(43) =

C 141 TEST CASE FOR NEW *ING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

SPEED PROFILE DESIGN CONSTANTS

BYPASS RATIO = 1.20 IVB = 2

ALT	VH	TEMP(H) DEG RANKINE	STATIC(H) PRES. RATIO	HAMMERSHOCK (H) FACE	THROAT
0.0	.57	552.848	.7713	1.5640	1.5187
5000.0	.62	539.813	.7688	1.5760	1.5274
10000.0	.68	527.677	.7660	1.5869	1.5342
15000.0	.74	516.488	.7629	1.5966	1.5391
20000.0	.81	506.629	.7593	1.6049	1.5416
21250.0	.83	504.163	.7584	1.6069	1.5421
22500.0	.85	501.785	.7575	1.6088	1.5424
36250.0	.85	446.321	.7575	1.6447	1.5768
50000.0	.85	446.321	.7575	1.6447	1.5768

ALT	VL	TEMP(L) DEG RANKINE	STATIC(L) PRES. RATIO	HAMMERSHOCK (L) FACE	THROAT
0.0	.60	556.014	.7700	1.5610	1.5143
5000.0	.65	543.142	.7675	1.5729	1.5227
10000.0	.71	531.158	.7647	1.5838	1.5294
15000.0	.77	520.160	.7616	1.5935	1.5341
20000.0	.84	510.476	.7580	1.6017	1.5364
21250.0	.85	507.615	.7573	1.6041	1.5374
22500.0	.87	504.801	.7565	1.6064	1.5384
36250.0	.87	449.004	.7565	1.6435	1.5739
50000.0	.87	449.004	.7565	1.6435	1.5739

	PRES(H) THROAT-PSIA	PRES(H) ENGINE-PSIA	PRES(L) THROAT -SIA	PRES(L) ENGINE-PSIA	STATIC PRES THROAT
0.0	27.905	28.736	28.385	29.260	12.168
5000.0	24.277	25.050	24.730	25.545	10.508
10000.0	21.131	21.857	21.556	22.322	9.086
15000.0	18.410	19.098	18.811	19.539	7.872
20000.0	16.093	16.754	16.470	17.170	6.858
21250.0	15.550	16.204	15.878	16.566	6.593
22500.0	15.029	15.676	15.307	15.984	6.346
36250.0	8.237	8.592	8.396	8.768	3.482
50000.0	4.254	4.437	4.336	4.528	1.757

WARNING FROM FUSGEO IN DATA MANAGEMENT
SECTION 4 IS ROUNDED RECT.. CORR. FACTOR IS 1.000

					IP(44)
1	231135.9924	20636842.3492	72452.7196	84964.0076	85709793.3426
6	5486947.5742	0.0000	0.0000	0.0000	0.0000
11	1.1727	294494565.0000	2415929.3082	.4403	0.0000
16	0.0000	0.0000	0.0000	0.0000	0.0000
21	2.9590	.9500	2.5000	0.0000	0.0000
26	148543.0947	0.0000	17094097.2604	.8062	2.5000
31	14288.1429	11.0342	1.3760	1.1563	4.5415
36	1.4187	0.0000	0.0000	0.0000	0.0000
41	33.3256	202.7125	662.7029	49951.7286	5212.1968
46	4108753.8896	706.8979	493779.2180	0.0000	0.0000
51	.5000	-44.5000	116680.0000	.0332	.1553
56	116680.0000	109396673.6000	4080594.9494	1719.2673	778.4917
61	672.6452	39.0803	777.1399	668.4288	668.4288
66	329.9752	0.0000	0.0000	0.0000	0.0000
71	6.5284	6.6112	83.6094	127.2275	127.2275
76	108.4337	0.0000	0.0000	0.0000	0.0000
81	19.0009	20.0794	0.0000	0.0000	0.0000
86	0.0000	0.0000	0.0000	0.0000	0.0000
91	41.2541	84.4271	94.4271	252.3218	83.4677
96	82.1885	78.9905	70.0633	0.0000	0.0000
101	35648.9195	3658.3153	2165.6169	27565.3330	8136.6669
106	847.9397	6112.2499	828.9665	0.0000	0.0000
111	982.7616	1847.4305	1750.9904	1062.2984	922.7167
116	356.5773	796.5297	699.0440	0.0000	0.0000
121	23.7969	12.3241	22.4033	158.7500	6.1700
126	4.1500	18.7000	1.2000	0.0000	0.0000
131	0.0000	0.0000	0.0000	0.0000	0.0000
136	0.0000	0.0000	0.0000	0.0000	0.0000
141	0.0000	0.0000	0.0000	0.0000	0.0000
146	0.0000	0.0000	0.0000	0.0000	0.0000
151	0.0000	0.0000	0.0000	0.0000	0.0000
156	0.0000	0.0000	0.0000	0.0000	0.0000
161	0.0000	0.0000	0.0000	0.0000	0.0000
186	0.0000	0.0000	0.0000	0.0000	0.0000
191	0.0000	0.0000	0.0000	0.0000	0.0000
196	0.0000	0.0000	0.0000	0.0000	0.0000

DATA MANAGEMENT *** OPERATIONAL WEIGHT EMPTY ***

** PRTOWE - IP(46) *

TOTAL AND MAJOR COMPONANT BREAK DOWN

	TOTAL WT.	ARM	FUSELAGE	WING	HORIZONTAL	VERTICAL	IB NACELLE	OB NACELLE
WING	35648.9	982.8	0.0	35648.9	0.0	0.0	0.0	0.0
HORIZONTAL	3658.3	1847.4	0.0	0.0	3658.3	0.0	0.0	0.0
VERTICAL	2165.6	1751.0	0.0	0.0	0.0	2165.6	0.0	0.0
BODY	27565.3	1062.3	27565.3	0.0	0.0	0.0	0.0	0.0
MAIN GEAR	8136.7	922.7	8136.7	0.0	0.0	0.0	0.0	0.0
NOSE GEAR	847.9	356.6	847.9	0.0	0.0	0.0	0.0	0.0
SURF. CONTROL	3714.0	1121.8	700.0	1724.1	888.0	401.9	0.0	0.0
ENG. SECTION	6112.2	796.5	0.0	0.0	0.0	0.0	3056.1	3056.1
OTHER STRUCTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENGINES	18759.0	774.1	0.0	0.0	0.0	0.0	9379.5	9379.5
ACCESSORY G BOX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AIS STRUCTURE	829.0	699.0	0.0	0.0	0.0	0.0	414.5	414.5
AIS ACT & MEC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EXHAUST	3577.0	845.7	0.0	0.0	0.0	0.0	1788.5	1788.5
COOL. & DRNS.	144.0	803.9	0.0	0.0	0.0	0.0	72.0	72.0
LUBE SYSTEM	212.0	840.8	0.0	0.0	0.0	0.0	106.0	106.0
FUEL SYSTEM	1380.0	953.4	0.0	1380.0	0.0	0.0	0.0	0.0
ENGINE CONTROLS	236.0	666.2	236.0	0.0	0.0	0.0	0.0	0.0
STARTING SYS.	320.0	768.3	0.0	0.0	0.0	0.0	160.0	160.0
A P U	554.0	844.7	0.0	0.0	0.0	0.0	277.0	277.0
INSTRUMENTS	1122.0	545.0	897.6	112.2	0.0	0.0	56.1	56.1
HYDRAULICS	1489.0	881.9	997.6	0.0	0.0	0.0	245.7	245.7
ELECTRICAL	2650.0	657.5	1987.5	0.0	0.0	0.0	331.3	331.3
ELECTRONIC	2347.0	592.4	2347.0	0.0	0.0	0.0	0.0	0.0
ARMAMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FURNISHINGS	3320.0	596.8	3320.0	0.0	0.0	0.0	0.0	0.0
AIR CONDITION.	2648.0	809.9	2118.4	0.0	0.0	0.0	264.8	264.8
PHOTO.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AUX. GEAR	95.0	1228.0	95.0	0.0	0.0	0.0	0.0	0.0
OTHER EQUIPMENT	113.0	300.0	113.0	0.0	0.0	0.0	0.0	0.0
CREW	860.0	351.3	860.0	0.0	0.0	0.0	0.0	0.0
TRAP. FUEL	2164.0	1001.9	0.0	2164.0	0.0	0.0	0.0	0.0
OIL	416.0	753.6	0.0	0.0	0.0	0.0	208.0	208.0
LN2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MISCELLANEOUS	236.0	853.0	236.0	0.0	0.0	0.0	0.0	0.0
GUNS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W. PYLONS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W. EXT. TANKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F. PYLONS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F. EXT. TANKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DATA MANAGEMENT --- EXPENDABLE USEFUL LOAD ** PRTOWE - IP(46) *

	------- CAPACITY ------- WEIGHT	ARM	TOGW	FDGW	LDGW
PASSENGERS OR PAYLOAD	70000.00	887.00	70000.00	70000.00	70000.00
WING PAYLOAD	0.00	0.00	0.00	0.00	0.00
AMMUNITION	0.00	0.00	0.00	0.00	0.00
WING FUEL TANK 1	67640.00	858.00	67640.00	65739.99	28090.00
WING FUEL TANK 2	49040.00	1047.34	49040.00	49040.00	28090.00
FUSELAGE FUEL TANK 1	0.00	0.00	0.00	0.00	0.00
FUSELAGE FUEL TANK 2	0.00	0.00	0.00	0.00	0.00
FUSELAGE FUEL TANK 3	0.00	0.00	0.00	0.00	0.00
FUSELAGE FUEL TANK 4	0.00	0.00	0.00	0.00	0.00
FUSELAGE FUEL TANK 5	0.00	0.00	0.00	0.00	0.00

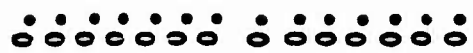
***** IN DSTNOR, WEIGHT .576869E+03 LB, LOCATED AT

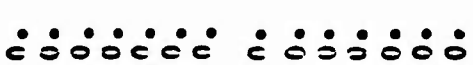
.148682E+03 IS FWD OF 1ST STA, .258133E+03 *****

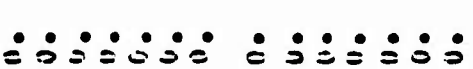
CHECK PRINT FOR AVDINR

** AVDINR - IP(45) *

HT	.316100E+06	.316100F+06	.318000E+06	.257500E+06	.318000E+06
	.931650E+03	.931650F+03	.931210E+03	.933006E+03	.931210E+03
	0.	0.	0.	0.	0.
	.250010E+03	.250010F+03	.250213E+03	.242275E+03	.250213E+03
	0.	0.	0.	0.	0.
	.234648E+11	.234648F+11	.234873E+11	.225714E+11	.234873E+11
	.594026E+11	.594026E+11	.560530E+11	.481361E+11	.560530E+11
HW	.188528E+06	.188528F+06	.190428E+06	.129928F+06	.190428E+06
	.921148E+03	.921148F+03	.920518E+03	.919099E+03	.920518E+03
	.382546E+03	.382546F+03	.380741E+03	.395072E+03	.380741E+03
	.267533E+03	.267533F+03	.267697E+03	.260106E+03	.267697E+03
	0.	0.	0.	0.	0.
	.349273E+10	.349273F+10	.351082E+10	.266022E+10	.351082E+10
	.401485E+11	.401485F+11	.402541E+11	.288829E+11	.402541E+11
HH	.454630E+04	.454630E+04	.454630E+04	.454630E+04	.454630E+04
	.184743E+04	.184743F+04	.184743E+04	.184743E+04	.184743E+04
	.100693E+03	.100693E+03	.100693E+03	.100693E+03	.100693E+03
	.558660E+03	.558660E+03	.558660E+03	.558660E+03	.558660E+03
	0.	0.	0.	0.	0.
	.713497E+07	.713497E+07	.713497E+07	.713497E+07	.713497E+07
	.762784E+08	.762784F+08	.762784E+08	.762784F+08	.762784E+08
HV	.256748E+04	.256748F+04	.256748E+04	.256748E+04	.256748E+04
	.175099E+04	.175099F+04	.175099E+04	.175099E+04	.175099E+04
	0.	0.	0.	0.	0.
	.376885E+03	.376885F+03	.376885E+03	.376885E+03	.376885E+03
	0.	0.	0.	0.	0.
	.212429E+08	.212429F+08	.212429E+08	.212429E+08	.212429E+08
	.106390E+08	.106390F+08	.106390E+08	.106390F+08	.106390E+08







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S(I) FROM AVDATA

** AVDATA - IP(48) **

1	157709.2451	149714467.4146	149714467.4146	60316035.0890	60316035.0890
6	155809.2375	148084260.8938	148084260.8938	59932967.5746	59932967.5746
11	97209.2435	93838792.8575	93838792.8575	39143175.6233	39143175.6233
16	2299259015.5933	2299259015.5933	3440847858O.8279	3440847858O.8279	949.3069
21	949.3069	382.4509	382.4509	950.4203	950.4203
26	384.6561	384.6561	965.3279	965.3279	402.6693
31	402.6693	120458.0905	107937684.0969	120458.0905	107937684.0969
36	120458.0905	107937684.0969	896.0601	896.0601	896.0601
41	4546.3048	1847.4305	100.6933	7134973.1948	30192774.6762
46	2567.4808	1750.9904	376.8851	21242854.5305	10639035.7320
51	16359.4432	12061006.5864	737.2504	285.0000	57758646.5089
56	57758646.5089	16359.4432	13516997.0309	826.2504	460.0000
61	57758646.5089	57758646.5089	39915.2736	318000.0076	296124771.5208
66	296124771.5208	931.2100	931.2100	316100.0000	294494565.0000
71	294494565.0000	931.6500	931.6500	2346477162 3.2926	2346477162 3.2926
76	59402629113.1284	59402629113.1284	143895120.7431	156339103.4261	257500.0060
81	240249096.9637	933.0062	25083351.0245	25083351.0245	25083351.0245
86	208.2330	208.2330	208.2330	2325372719.9627	1434115929.6982
91	345225811 86.5969	230871117 16.3994	234872785 36.3408	225714074 85.9128	560529979 66.4465
96	481361480 20.7661	795678 92.6701	250.2135	790282 90.5117	250.0104
101	62385892.2043	242.2753	100.3586	0.0000	0.0000
106	0.0000	0.0000	0.0000	0.0000	1044.6922

*D(I) FROM DCCNTL				** DCCNTL - IP(47)	*
1	0.0000	318000.0076	316100.0000	2.5000	-1.0000
6	533.2874	.3775	0.0000	.0497	0.0000
11	0.0000	0.0000	0.0000	648.7600	3002.8300
16	8.5197	28.1090	.4175	155.4000	.0304
21	862.0528	56.1000	1.0000	2.0000	77.7000
26	165.8988	254.0976	342.2964	430.4952	518.6940
31	606.8928	695.0916	783.2904	871.4892	937.6383
36	33820.0000	32869.9962	858.0000	78.0000	325.0000
41	24520.0000	24520.0000	1047.3400	415.0000	948.0000
46	8179.7216	285.0000	737.2504	-91.2900	1.0000
51	28879323.2545	0.0000	28879323.2545	8179.7216	460.0000
56	826.2504	-98.4800	1.0000	28879323.2545	0.0000
61	28879323.2545	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000	0.0000
81	0.0000	0.0000	0.0000	0.0000	0.0000
86	0.0000	0.0000	0.0000	0.0000	0.0000
91	0.0000	0.0000	0.0000	0.0000	0.0000
96	0.0000	0.0000	0.0000	0.0000	0.0000
101	0.0000	0.0000	116680.0000	190[illegible].0076	0.0000
106	2.5000	0.0000	0.0000	0.0000	0.0000
111	.4000	0.0000	.0072	1718.1700	483.0000
116	5.2480	28.9845	.3699	0.0000	443.9948
121	0.0000	2.0000	0.0000	30.2080	60.4160
126	90.6239	120.8319	151.0399	181.2479	211.4559
131	241.6639	271.8718	294.5978	.4000	.2500
136	.0081	1544.8000	832.0000	2.4820	35.0000
141	.6089	0.0000	401.8639	0.0000	2.0000
146	0.0000	27.2655	54.5310	81.7966	109.0621
151	136.3276	163.5931	190.8586	218.1242	245.3897
156	265.8388	1.0000	1.0000	0.0000	284.0000
161	.1633	.6125	0.0000	558.6600	.1050
166	1.0000	0.0000	286.0000	.1300	1.0000
191	0.0000	0.0000	0.0000	0.0000	0.0000
196	0.0000	0.0000	0.0000	0.0000	0.0000

SHEAR, MOMENT AND TORQUE

WING ONLY AT 1G

AFT POSITION

I	SHEAR	MOMENT	TORQUE	BUTT PLANE
1	-15704.	-6347873.	502010.	77.7
2	-13408.	-4891528.	409944.	165.9
3	-11237.	-3656755.	327894.	254.1
4	-9197.	-2630978.	255554.	342.3
5	-7299.	-1800805.	192615.	430.5
6	-5552.	-1151856.	138774.	518.7
7	-3973.	-668488.	93743.	606.9
8	-2580.	-333396.	57272.	695.1
9	-1405.	-126908.	29199.	783.3
10	-497.	-25544.	9626.	871.5
11	-62.	-1280.	1140.	937.6

WING AND CONTENTS AT 1G

AFT POSITION GROSS WEIGHT 2

SHEAR	MOMENT	TORQUE
-91824.	-30752377.	-2164181.
-76644.	-22542730.	-2224644.
-63225.	-15723567.	-2281716.
-43285.	-11203697.	-1124198.
-41100.	-7072159.	-1196434.
-24163.	-4574963.	-23985.
-16781.	-2592619.	-10734.
-10687.	-1261540.	-4443.
-5805.	-461631.	-2186.
-2085.	-78942.	-1051.
-71.	-1471.	1309.

WING ONLY AT 1G

FORWARD POSITION

I	SHEAR	MOMENT	TORQUE	BUTT PLANE
1	-15704.	-6347873.	502010.	77.7
2	-13408.	-4891528.	409944.	165.9
3	-11237.	-3656755.	327894.	254.1
4	-9197.	-2630978.	255554.	342.3
5	-7299.	-1800805.	192615.	430.5
6	-5552.	-1151856.	138774.	518.7
7	-3973.	-668488.	93743.	606.9
8	-2580.	-333396.	57272.	695.1
9	-1405.	-126908.	29199.	783.3
10	-497.	-25544.	9626.	871.5
11	-62.	-1280.	1140.	937.6

WING AND CONTENTS AT 1G

FORWARD POSITION AT GROSS WEIGHT 1

SHEAR	MOMENT	TORQUE
-92774.	-30880520.	-2167428.
-77232.	-22596798.	-2226584.
-63497.	-15736379.	-2282584.
-43285.	-11203697.	-1124198.
-41100.	-7072159.	-1196434.
-24163.	-4574963.	-23985.
-16781.	-2592619.	-10734.
-10687.	-1261540.	-4443.
-5805.	-461631.	-2186.
-2085.	-78942.	-1051.
-71.	-1471.	1309.

WING AND CONTENTS AT 1G

FORWARD POSITION AT GROSS WEIGHT 2

I	SHEAR	MOMENT	TORQUE	BUTT PLANE
1	-91824.	-30752377.	-2104181.	77.7
2	-76644.	-22542730.	-2224044.	165.9
3	-63225.	-15723567.	-2281716.	254.1
4	-43285.	-11203697.	-1124199.	342.3
5	-41100.	-7072159.	-1194434.	430.5
6	-24163.	-4574963.	-23985.	518.7
7	-16781.	-2592619.	-14734.	606.9
8	-10887.	-1261540.	-4443.	695.1
9	-5865.	-461631.	-2186.	783.3
10	-2085.	-78942.	-1.51.	871.5
11	-71.	-1471.	1309.	937.6

WING AND CONTENTS AT 1G

FORWARD POSITION AT GROSS WEIGHT 3

I	SHEAR	MOMENT	TORQUE	BUTT PLANE
1	-62524.	-21294471.	-1456196.	77.7
2	-54525.	-16174113.	-1571547.	165.9
3	-47359.	-11185434.	-1609566.	254.1
4	-32811.	-7937354.	-1 [illegible]537.	342.3
5	-30625.	-4923247.	-1 [illegible]1773.	430.5
6	-16570.	-3186783.	54304.	518.7
7	-11565.	-1813065.	38413.	606.9
8	-7390.	-886495.	25536.	695.1
9	-4016.	-326801.	13064.	783.3
10	-1439.	-57771.	4117.	871.5
11	-71.	-1471.	1309.	937.6

NET WING LOADS AT 2G TAXI

FORWARD POSITION AT GROSS WEIGHT 1

I	SHEAR	MOMENT	TORQUE	BUTT PLANE
1	-[illegible]55548.	-61761039.	-4334855.	77.7
2	-[illegible]44464.	-45193594.	-4453167.	165.9
3	-126994.	-31472758.	-4565168.	254.1
4	-[illegible]6578.	-22407393.	-2248395.	342.3
5	-[illegible]2200.	-14144319.	-2392868.	430.5
6	-48325.	-9149927.	-47971.	518.7
7	-33562.	-5185238.	-21468.	606.9
8	-21374.	-2523040.	-8867.	695.1
9	-11611.	-923263.	-4373.	783.3
10	-4171.	-157883.	-2102.	871.5
11	-143.	-2942.	2617.	937.6

HORIZONTAL TAIL AND CONTENTS ** DMAXLD - IP(47) **

COORD. OF E. A. Y	X	SHEAR	MOMENT	TORQUE	SECTION WEIGHT	COORDINATES Y BAR	X BAR
0.00	1785.40						
0.00	1785.40	-2273.	-308328.	25035.	.00	0.00	1801.35
30.21	1797.90	-1941.	-237485.	20292.	664.60	15.16	1807.09
60.42	1810.40	-1627.	-177439.	16098.	628.63	45.31	1818.50
90.62	1822.89	-1331.	-127575.	12433.	590.47	75.52	1830.08
120.83	1835.39	-1056.	-87239.	9276.	549.67	105.73	1841.57
151.04	1847.89	-804.	-55730.	6607.	505.57	135.94	1853.07
181.25	1860.39	-575.	-32283.	4405.	457.23	166.14	1864.56
211.46	1872.88	-374.	-16052.	2652.	403.10	196.35	1876.05
241.66	1885.38	-203.	-6076.	1329.	340.40	226.56	1887.54
271.87	1897.88	-72.	-1206.	429.	262.87	256.77	1899.04
294.53	1907.25	-9.	-57.	50.	125.80	283.20	1909.00
302.08	1910.38				17.97	298.36	1914.84

VERTICAL TAIL AND CONTROLS

** DMAXLD - [illegible] **

COORD. OF E. A. Z	X	SHEAR	MOMENT	TORSION	SPECIFIED STATIONS Z	X
0.00	1654.04					
0.00	1654.04	-2567.	-470657.	57962.	.01	1645.86
27.27	1671.53	-2192.	-387249.	48198.	375.33	1643.97
54.53	1689.02	-1837.	-310250.	39161.	355.31	1711.23
81.80	1706.51	-1504.	-239474.	31106.	333.45	1725.44
109.06	1724.00	-1193.	-174692.	23933.	310.42	1742.71
136.33	1741.49	-904.	-116623.	17634.	285.52	1758.96
163.59	1758.98	-651.	-67921.	12207.	258.21	1775.24
190.86	1776.47	-422.	-31652.	7663.	227.55	1791.45
218.12	1793.96	-231.	-8747.	4025.	192.24	1807.60
245.39	1811.45	-91.	-2030.	1371.	144.45	1823.94
265.84	1824.56	-11.	-148.	147.	71.04	1838.15
272.66	1828.94				10.15	1845.27

** ICOM AT END OF DATA MANAGEMENT LINK ** ** DATAIN - IP(49) **

*** VEHICLE GEOMETRY AND MISC DATA FILE ***

1	.1000	.6000	1.4000	.8424	.2500	
6	.5000	.0010	.2500	.5000	.2500	
11	.8000	.1000	34.7776	.9800	.0900	
16	.8000	2.0240	.2963	.6238	.8000	
21	1.0000	1.2000	1.0000	1.0000	.0000	
26	50.0000	100.0000	20.0000	10.0000	30.0000	
31	50.0000	10.0000	1.0000	1.0000	2.0000	
36	.0300	1.0000	1.2000	1.0000	.6000	
41	.2000	.1200	0.0000	0.0000	0.0000	
46	318000.0076	297500.0060	0.0000	931.2100	933.0082	
51	154.2135	991.7700	354.7500	210.0000	240000.0000	
56	.3300	165000.0000	30000000.0000	.2800	0.0000	
61	0.0000	1.0000	1.0000	1.0000	1.0000	
66	1.0000	1.0000	4.0000	0.0000	4.0000	
71	0.0000	61.7000	28.0000	0.0000	0.0000	
76	4.0000	0.0000	0.0000	44.0000	14.0000	
81	41.5000	12.0000	0.0000	0.0000	2.0000	
86	0.0000	36.0000	11.0000	6.0000	10.0000	
91	231.8272	208.6121	0.0000	0.0000	0.0000	
96	0.0000	0.0000	1.0000	0.0000	0.0000	
116	0.0000	1.3501	.6643	1.5000	.0060	
121	.0807	3.1650	1.5885	1100.0000	2.5000	
126	.7705	.1483	4.3718	2.1150	900.0000	
131	1.5381	.3030	.4972	.4653	700.0000	
141	1.6000	.9840	.0074	.0263	2000.0000	
146	.9750	.9750	.9750	0.0000	0.0000	
151	2.0000	10.0000	.5000	4.0000	1.5000	
156	10.0000	.5000	1.0000	2.5000	12.0000	
161	.0150	.4000	.9500	.0005	5.0000	
166	.6000	.8000	1.0000	1.3500	.2500	
171	500.0000	.0064	.4300	.4140	.1680	
176	.8960	.0430	.1210	.0250	43.2700	
181	1.0000	.4300	.3760	.1220	.8730	
186	.3570	.4890	.0390	13.7200	1.0000	
191	.4300	.4116	.7756	.2136	.2142	
196	.8500	.1500	1.1240	.1720	.1470	

201	.0650	.2410	.0520	1.0000	.5500
206	.4800	0.0000	.5320	.1250	.1240
211	.0360	.1780	.1240	.2740	.2900
216	0.0000	.1000	.7000	.3300	.2500
221	.2000	.5000	510.0000	0.0000	0.0000
701	31.0000	0.0000	0.0000	0.0000	1.0000
706	0.0000	0.0000	1.0000	0.0000	0.0000
721	318000.0000	0.0000	316170.0000	931.6500	2575[illegible]0.0000
726	0.0000	300 00.0000	12070.0000	0.0000	0.0000
1526	1.0000	1.0000	1.0000	1.0000	0.0000
1531	1.0000	1.0000	1.0000	1.0000	1.0000
1536	1.0000	1.0000	1.0000	1.0000	0.0000
1541	552.8479	539.8127	527.0770	516.4881	506.5288
1546	504.1626	501.7847	446.3207	446.3207	0.0000
1551	556.0142	543.1418	531.1582	520.1598	510.4754
1556	507.6148	504.8011	449.0037	449.0037	0.0000
1561	18.3738	15.4947	13.7736	11.9615	10.4396
1566	10.0839	9.7438	5.2240	2.6977	0.0000
1571	18.7448	16.2405	14.0942	12.2617	10.7197
1576	10.3276	9.9503	5.3348	2.7548	0.0000
1581	15.4895	13.3996	11.6114	10.0837	8.8008
1586	8.5009	8.2142	4.4039	2.2742	0.0000
1591	15.8022	13.6910	11.8817	10.3369	9.0369
1596	8.7064	8.3883	4.4973	2.3224	0.0000
1601	.7713	.7688	.7660	.7629	.7593
1606	.7594	.7575	.7575	.7575	0.0000
1611	.7700	.7675	.7647	.7616	.7587
1616	.7573	.7565	.7565	.7565	0.0000
1621	1.5640	1.5760	1.5869	1.5906	1.6040
1626	1.6069	1.6088	1.6447	1.6447	0.0000
1631	1.5610	1.5729	1.5838	1.5935	1.6017
1636	1.6041	1.6064	1.6435	1.6435	0.0000
1641	1.5187	1.5274	1.5342	1.5391	1.5414
1646	1.5421	1.5424	1.5768	1.5768	0.0000
1651	1.5143	1.5227	1.5294	1.5341	1.5364
1656	1.5374	1.5384	1.5739	1.5739	0.0000
1661	27.9049	24.2760	21.1315	18.4104	16.0934
1666	15.5500	15.0287	8.2371	4.2536	0.0000
1671	28.7357	25.0496	21.8570	19.0479	16.7563

1676	16.2038	15.6760	8.5019	4.4368	0.0000	
1681	28.3853	24.7298	21.5658	18.0112	16.4697	
1686	15.8781	15.3072	8.3063	4.3354	0.0000	
1691	29.2605	25.5451	22.3222	19.5386	17.1697	
1696	16.5663	15.9860	8.7676	4.5275	0.0000	
1701	12.1677	10.5080	9.0859	7.8722	6.8500	
1706	6.5930	6.3458	3.4022	1.7569	0.0000	
1711	0.0000	.5760	.0000	488.0706	533.2874	
1716	28.7357	29.2605	.2704	14.0398	14.5645	
1721	77.7000	28.1090	24.7645	648.7600	317.8707	
1726	.4175	8.5197	3002.8300	159.9480	77.7000	
1731	165.8988	254.0976	342.2964	430.4952	518.6940	
1736	606.8928	695.0916	783.2904	871.4892	937.6383	
1741	.3775	0.0000	0.0000	0.0000	0.0000	
1761	0.0000	23.6379	929.4494	237.9687	959.6880	
1766	28.1090	648.7600	317.8707	132.7002	25.9158	
1771	296.5815	28.9845	22.4758	1718.1700	168.0750	
1776	.3699	5.2460	483.0000	50.3466	0.0000	
1781	0.0000	30.2080	60.4160	90.6239	120.8319	
1786	151.0399	181.2479	211.4559	241.6639	271.8718	
1791	294.5278	.4000	25.0000	1819.8208	123.2469	
3941	5940262911 3.1284	5940262911 3.1284	56052997966.4465	4813614 8020.7661	56052997966.4465	
3946	188528.1239	188528.1239	190428.1315	12992 8.1299	190428.1315	
3951	921.1478	921.1478	920.5177	919.0989	920.5177	
3956	382.5464	382.5464	380.7411	395.0120	380.7411	
3961	267.5328	267.5328	267.6971	260.1058	267.6971	
3971	3492732035.7444	3492732035.7444	35108233 3.7371	2660217186.7733	35108233 3.7371	
3976	40148532182.2205	40148532182.2205	40254102329.3318	28882850957.6953	40254102329.3318	
3981	4546.3048	4546.3048	4546.3048	4546.3048	4546.3048	
3986	1847.4305	1847.4305	1847.4305	1847.4305	1847.4305	
3991	100.6933	100.6933	100.6933	100.6933	100.6933	
3996	558.6600	558.6600	558.6600	558.6600	558.6600	
4006	7134973.1948	7134973.1948	7134973.1948	7134973.1948	7134973.1948	
4011	76278377.6390	76278377.6390	76278377.6390	76278377.6390	76278377.6390	
4016	2567.4808	2567.4808	2567.4808	2567.4808	2567.4808	
4021	1750.9904	1750.9904	1750.9904	1750.9904	1750.9904	
4031	376.8851	376.8851	376.8851	376.8851	376.8851	
4041	21242854.5305	21242854.5305	21242854.5305	21242854.5305	21242854.5305	
4046	10639035.7320	10639035.7320	10639035.7320	10639035.7320	10639035.7320	

4221	15	4	1
4226	146	3	
4231	1	2	
4236		2	

	14	4	
	141	3	
	0	2	
	1	2	

	20	4	
	0	3	
	0	2	
	10	2	

	1	4	
	1	3	
	2	2	
	2	2	

*** HC ARRAY --- LOADS DATA - - RECORD 22 *** ** DATA(') - IP(47) *

1	318000.0076	931.2100	931.2100	316100.0000	931.6500
6	931.6500	5064634.6358	5064634.6358	12821459.2366	12821459.2366
11	257500.0060	933.0062	2.5000	2.0000	-1.0000
16	2.0000	1.0000	-.5000	0.0000	20000.0000
21	22500.0000	.5740	.8140	.8500	0.0000
26	0.0000	0.0000	0.0000	0.0000	0.0000
31	147.0000	103.0000	230.4000	221.6000	3005209.3076
36	84.9887	77.7000	28.1090	24.7645	648.7600
41	317.8707	.4175	8.5107	3002.8300	159.9480
46	77.7000	165.8988	254.0976	342.2964	430.4952
51	518.6940	606.8928	695.0916	783.2904	871.4892
56	937.6383	.3775	0.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000	0.0000
86	0.0000	0.0000	0.0000	0.0000	0.0000
91	0.0000	0.0000	0.0000	0.0000	0.0000
96	0.0000	0.0000	0.0000	0.0000	92.0000
101	641.0000	.3230	50.0000	294.5815	28.9845
106	22.4758	1718.1700	168.0750	.3699	5.2480
111	483.0000	50.3466	0.0000	0.0000	30.2080
116	60.4160	90.6239	120.8319	151.0399	181.2479
121	211.4559	241.6639	271.8718	294.5278	.4000
126	0.0000	0.0000	0.0000	0.0000	0.0000
131	0.0000	0.0000	0.0000	0.0000	0.0000
136	0.0000	38.5947	32.6781	1525.7075	282.4740
141	.5887	1.3217	462.1473	-24.7147	23.9215
146	23.9215	51.1870	78.4525	105.7180	132.9835
151	160.2491	187.5146	214.7801	242.0456	269.3112
156	289.7603	.4000	262.0785	0.0000	0.0000
161	0.0000	0.0000	0.0000	0.0000	0.0000
166	.6000	.8400	.8700	30000.0000	12000.0000
171	165.8988	1.0000	.8097	.4130	-28948582.2078
176	-20712577.5346	-11214796.0936	-22596794.1962	-16170112.6016	-8242831.0332
181	-0.0000	-0.0000	-1.0000	-0.0000	-0.0000
186	-0.0000	318000.0076	257500.0060	0.0000	0.0000
191	0.0000	0.0000	0.0000	0.0000	0.0000
196	0.0000	0.0000	1.0000	0.0000	0.0000

OUTPUT TABLES AND CONTROLS

FLUTTER AND TEMPERATURE ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for flutter and temperature module
41	(3,0)	F & Temp	WHVMAT	Wing, H-tail, V-tail material allowable stress and shear modulus
41	(3,0)	F & Temp	SVFTAB	Wing (fixed or aft) flutter parameter vs mach number table
41	(3,0)	F & Temp	SVFTAB	Wing (forward) flutter parameter vs mach number table
41	(3,0)	F & Temp	SVFTAB	H-tail flutter parameter vs mach number table
41	(3,0)	F & Temp	SVFTAB	V-tail flutter parameter vs mach number table
41	(3,0)	F & Temp	WHVQQ	Compressible dynamic pressure data
41	(3,0)	F & Temp	WHVQQ	Design temperature, pressure and G

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                                                    ** OLAY00 - IP(40) *

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT     AUGUST 1973
C 141 TEST CASE                    ---NO. 1 ---


                          **** FLUTTER AND TEMPERATURE (OVERLAY 3) ****
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** WHVMAT - IP(41) **

*** WING ***

7075-T6511 AL EXTRU. 3.0 TO 4.0 IN. MIL-HDBK-5 A DATA EST.
REF. TABLE 3.2.7.0(F) PAGE 340 2-26-72

TEMPERATURE	STRESS (PSI)	G (PSI)
80.	81000.	3947369.
0.	0.	0.
0.	0.	0.
0.	0.	0.
0.	0.	0.
0.	0.	0.

STRESS AT 80 DEGREES 81000.

*** HORIZONTAL TAIL ***

7075-T6511 AL EXTRU. 3.0 TO 4.0 IN. MIL-HDBK-5 A DATA EST.
REF. TABLE 3.2.7.0(F) PAGE 340 2-26-72

TEMPERATURE	STRESS (PSI)	G (PSI)
80.	81000.	3947369.
0.	0.	0.
0.	0.	0.
0.	0.	0.
0.	0.	0.
0.	0.	0.

STRESS AT 80 DEGREES 81000.

*** VERTICAL TAIL ***

7075-T6511 AL EXTRU. 3.0 TO 4.0 IN. MIL-HDBK-5 A DATA EST.
REF. TABLE 3.2.7.0(F) PAGE 340 2-26-72

TEMPERATURE	STRESS (PSI)	G (PSI)
80.	81000.	3947369.
0.	0.	0.
0.	0.	0.
0.	0.	0.
0.	0.	0.
0.	0.	0.

STRESS AT 80 DEGREES 81000.

*** WING (FIXED OR AFT) ***

** SVFTAB - IP(41) *

FLUTTER PARAMETER VS MACH NUMBER

MACH NO.	AR = 8.52	SWEEP(C/4) = 25.9 DEG	TAPER = .417	COMPOSITE
.200	.1097	.0566	.0667	.1150
.400	.2194	.1132	.1333	.2300
.600	.3292	.1698	.2000	.3450
.800	.4389	.2264	.2666	.4600
.825	.4516	.2376	.2812	.4641
.850	.4671	.2517	.3005	.4670
.875	.4984	.2657	.3205	.4877
.900	.5134	.2769	.3355	.4963
.925	.5209	.2864	.3475	.4999
.950	.5326	.2918	.3536	.5140
.975	.5447	.2961	.3574	.5293
1.000	.5535	.2993	.3598	.5408
1.025	.5590	.3016	.3608	.5486
1.050	.5648	.3027	.3606	.5593
1.075	.5731	.3023	.3584	.5735
1.100	.5804	.3008	.3551	.5870
1.125	.5844	.2984	.3494	.5949
1.150	.5874	.2945	.3418	.5997
1.175	.5917	.2896	.3317	.6031
1.200	.5938	.2843	.3227	.6053
2.000	.3956	.2498	.2819	.4122
2.100	.3931	.2514	.2847	.4099
2.200	.3951	.2530	.2875	.4123
2.300	.3993	.2545	.2903	.4170
2.400	.4023	.2571	.2941	.4204
2.500	.4099	.2597	.2978	.4285
3.000	.4457	.2767	.3202	.4631
3.500	.4890	.2972	.3451	.5055
4.000	.5333	.3186	.3715	.5494
4.500	.5809	.3411	.3992	.5971
5.000	.6341	.3646	.4276	.6498

*** HORIZONTAL TAIL ***

** SVFTAB - IP(41) *

FLUTTER PARAMETER VS MACH NUMBER

MACH NO.	AR = 5.25	SWEEP(C/4) = 25.0 DEG	TAPER = .370	COMPOSITE
.200	.0737	.0564	.0640	.0739
.400	.1475	.1129	.1279	.1479
.600	.2212	.1693	.1919	.2218
.800	.2949	.2258	.2558	.2957
.825	.3093	.2368	.2706	.3048
.850	.3280	.2506	.2901	.3153
.875	.3512	.2643	.3101	.3308
.900	.3662	.2753	.3251	.3411
.925	.3769	.2847	.3371	.3489
.950	.3838	.2901	.3428	.3570
.975	.3893	.2944	.3463	.3645
1.000	.3932	.2978	.3485	.3702
1.025	.3954	.3001	.3495	.3740
1.050	.3963	.3013	.3490	.3781
1.075	.3964	.3010	.3465	.3819
1.100	.3955	.2997	.3429	.3848
1.125	.3930	.2973	.3375	.3851
1.150	.3895	.2936	.3305	.3833
1.175	.3856	.2888	.3217	.3801
1.200	.3811	.2836	.3135	.3765
2.000	.2974	.2493	.2730	.2995
2.100	.2982	.2509	.2755	.3003
2.200	.3002	.2524	.2780	.3023
2.300	.3028	.2540	.2804	.3049
2.400	.3058	.2566	.2839	.3078
2.500	.3101	.2591	.2874	.3121
3.000	.3344	.2760	.3088	.3343
3.500	.3630	.2963	.3329	.3610
4.000	.3927	.3177	.3583	.3889
4.500	.4239	.3400	.3850	.4188
5.000	.4574	.3633	.4124	.4506

*** VERTICAL TAIL ***

** SVFTAB - IP(41) *

FLUTTER PARAMETER VS MACH NUMBER

MACH NO.	AR = .74	SWEEP(C/4) = 35.0 DEG	TAPER = .609	COMPOSITE
.200	.0089	.0582	.0775	.0112
.400	.0179	.1164	.1550	.0224
.600	.0268	.1747	.2325	.0336
.800	.0357	.2329	.3100	.0448
.825	.0369	.2459	.3240	.0462
.850	.0380	.2628	.3419	.0481
.875	.0391	.2797	.3619	.0485
.900	.0402	.2927	.3769	.0462
.925	.0413	.3033	.3889	.0470
.950	.0421	.3086	.3970	.0482
.975	.0428	.3122	.4021	.0494
1.000	.0436	.3149	.4051	.0504
1.025	.0443	.3166	.4061	.0514
1.050	.0447	.3167	.4072	.0523
1.075	.0450	.3150	.4062	.0533
1.100	.0454	.3123	.4043	.0543
1.125	.0458	.3087	.3972	.0548
1.150	.0454	.3038	.3871	.0542
1.175	.0450	.2979	.3719	.0529
1.200	.0447	.2918	.3597	.0521
2.000	.0417	.2547	.3177	.0499
2.100	.0424	.2564	.3217	.0510
2.200	.0432	.2582	.3258	.0521
2.300	.0439	.2600	.3298	.0532
2.400	.0447	.2628	.3349	.0543
2.500	.0454	.2656	.3400	.0554
3.000	.0484	.2840	.3661	.0590
3.500	.0517	.3057	.3943	.0629
4.000	.0555	.3283	.4245	.0673
4.500	.0596	.3520	.4567	.0723
5.000	.0640	.3767	.4889	.0775

FLUTTER SPEED MARGIN = 1.20 * WHVQQ - IP(41) *

WING FIXED OR AFT

SPEED-ALTITUDE PROFILE POINTS			FLUTTER DESIGN		
ALTITUDE FEET	MACH NUMBER	DYNAMIC PRESSURE	MACH NUMBER	DYNAMIC PRESSURE	COMPRESSIBLE DYNAMIC PRESSURE
0.	.6000	533.1	.7200	767.7	767.7
5000.	.6499	520.4	.7798	749.4	749.4
10000.	.7060	507.7	.8472	731.1	671.1
15000.	.7688	494.0	.9225	711.4	630.8
20000.	.8400	480.3	1.0080	691.6	607.7
21250.	.8548	471.9	1.0258	679.5	588.6
22500.	.8700	463.5	1.0440	667.4	574.1
36250.	.8700	248.5	1.0440	357.9	307.8
50000.	.8700	128.3	1.0440	184.8	159.0

HORIZONTAL TAIL

SPEED-ALTITUDE PROFILE POINTS			FLUTTER DESIGN		
ALTITUDE FEET	MACH NUMBER	DYNAMIC PRESSURE	MACH NUMBER	DYNAMIC PRESSURE	COMPRESSIBLE DYNAMIC PRESSURE
0.	.6000	533.1	.7200	767.7	767.7
5000.	.6499	520.4	.7798	749.4	749.4
10000.	.7060	507.7	.8472	731.1	735.5
15000.	.7688	494.0	.9225	711.4	741.2
20000.	.8400	480.3	1.0080	691.6	687.1
21250.	.8548	471.9	1.0258	679.5	661.6
22500.	.8700	463.5	1.0440	667.4	637.2
36250.	.8700	248.5	1.0440	357.9	341.7
50000.	.8700	128.3	1.0440	184.8	176.4

VERTICAL TAIL

SPEED-ALTITUDE PROFILE POINTS

ALTITUDE FEET	MACH NUMBER	DYNAMIC PRESSURE	FLUTTER DESIGN MACH NUMBER	FLUTTER DESIGN DYNAMIC PRESSURE	COMPRESSIBLE DYNAMIC PRESSURE
0.	.6000	533.1	.7200	767.7	767.7
5000.	.6499	520.4	.7798	749.4	749.4
10000.	.7060	507.7	.8472	731.1	662.3
15000.	.7688	494.0	.9225	711.4	587.2
20000.	.8400	480.3	1.0080	691.6	558.3
21250.	.8548	471.9	1.0258	679.5	543.8
22500.	.8700	463.5	1.0440	667.4	528.9
36250.	.8700	248.5	1.0440	357.9	283.6
50000.	.8700	128.3	1.0440	184.8	146.4

** WHVQQ - IP(41) **

*** DESIGN TEMPERATURE, PRESSURE AND G ***

	PROFILE POINT	ALTITUDE	MACH NO.	TEMPERATURE	PRESSURE	G (PSI)
WING	1	0.	.6000	95.3	767.7	3947369.
HORIZONTAL	1	0.	.6000	95.3	767.7	0.
VERTICAL	1	0.	.7200	109.2	767.7	0.

OUTPUT TABLES AND CONTROLS

AIRLOADS ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for air-loads module
52	(4,0)	Loads	USPAN	Wing lift curve slope tables
52	(4,0)	Loads	USPAN	Wing loading analysis stations
52	(4,0)	Loads	USPAN	Flap increment tables
52	(4,0)	Loads	USPAN	H-tail lift curve slope tables
52	(4,0)	Loads	USPAN	H-tail loading analysis stations
52	(4,0)	Loads	USPAN	V-tail lift curve slope tables
52	(4,0)	Loads	USPAN	V-tail loading analysis stations
52	(4,0)	Loads	USPAN	Wing unit spanwise distributions
52	(4,0)	Loads	USPAN	Flap unit spanwise distributions
52	(4,0)	Loads	USPAN	H-tail unit spanwise distributions
52	(4,0)	Loads	USPAN	V-tail unit spanwise distributions
50	(4,0)	Loads	BNLDS	Vehicle total surface load tables and inertia factors

OUTPUT TABLES AND CONTROLS

AIRLOADS ANALYSIS (CONCL)

IP	Overlay	Module	Subroutine	Description
51	(4,0)	Loads	SPABM	Wing spanwise load distributions
51	(4,0)	Loads	SPABM	H-tail spanwise load distributions
51	(4,0)	Loads	SPABM	V-tail spanwise load distributions
53	(4,0)	Loads	WHVNET	Wing design loads and ratios
53	(4,0)	Loads	WHVNET	H-tail design loads and ratios
53	(4,0)	Loads	WHVNET	V-tail design loads and ratios
54	(4,0)	Loads	BLCNTL	Data, equilibrium skin temperature, design temperatures and maximum wing design bending moments for fatigue
55	(4,0)	Loads	FATMG	Flight spectrum fatigue table
55	(4,0)	Loads	FATMG	Ground-air-ground fatigue spectrum table

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                                                    ** OLAY00 - IP(40) *

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT     AUGUST 1973
C 141 TEST CASE                  ---NO. 1 ---


                        **** L O A D S (OVERLAY 4) ****
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** USA1 - [illegible] **

VALUES FROM HCLA/K TABLES FOR AK= .5197 SSK= 27.27 TK= .4175 RA/K= 0.8373

TK=	0.00	.25	.50	1.00	
	.07739	.07840	.07562	.07235	(CTMS)

VALUES FROM LOADING TABLES FOR AM= .333

1.43991	1.24275	1.12541	.94703	STA= 0.000
1.27188	1.17854	1.14523	1.11185	STA= .389
.78483	.90988	.98136	1.08866	STA= .707
.27912	.54553	.64410	.78613	STA= .924

STATION	LOADING OF DATA STATIONS MN= .333
0.00000	1.16153
.38300	1.15455
.70700	.95953
.92400	.61680
1.00000	0.00000

STATION	LOADING-ANALYSIS STATIONS (ING)
1.00000	0.00000
.97702	.20248
.90810	.68087
.81619	.82664
.72429	.93895
.63239	1.03084
.54048	1.08917
.44858	1.13080
.35667	1.16229
.26477	1.17645
.17287	1.17775
.08096	1.17134
0.00000	1.16153

STATION	DX SWEEP
1.00000	-6.414
.97702	-6.619
.90810	-7.236
.81619	-8.058
.72429	-8.881
.63239	-9.703
.54048	-10.526
.44858	-11.348
.35667	-12.171
.26477	-12.993
.17287	-13.816
.08096	-14.638
0.00000	17.907

STATION	OUTB CLMB	INB CLMB	FLAP INCR	MN= .333	HP= 50.00
1.00000	0.00000	0.00000	0.00000		
.97702	.04545	.02835	.03712		
.90810	.17376	.02946	.14424		
.81619	.29604	.03811	.25793		
.72429	.47904	.03731	.44177		
.63239	.69324	.04304	.65516		
.54048	.89986	.04607	.83372		
.44858	1.02706	.09675	.93031		
.35667	1.10417	.13208	.97209		
.26477	1.16005	.17186	.98819		
.17287	1.20084	.24921	.95167		
.08096	1.21459	.42164	.79295		
0.00000	1.21311	.50892	.70419		

STATION	DX SWEEP
1.00000	7.969
.97702	8.225
.90810	8.991
.81619	10.013
.72429	11.035
.63239	12.057
.54048	13.079
.44858	14.101
.35667	15.123
.26477	16.145
.17287	17.167
.08096	18.189
0.00000	50.734

** ISPAN - TP(52) *

VALUES FROM HCLA/K TABLES FOR AR= 5.2481 SWR= 26.32 TR= .3699 HA/K= 5.4374

TR=	0.00	.25	.50	1.00	
	.06829	.06950	.06795	.06410	(HOR TAIL)

VALUES FROM LOADING TABLES FOR MN= .333

1.40700	1.26779	1.18028	1.04684	STA= 0.000
1.24486	1.18028	1.15869	1.13856	STA= .393
.81106	.90342	.95547	1.03639	STA= .707
.32287	.51313	.57613	.64463	STA= .924

** (SPAN - 1P(e2) **

STATION	LOADING AT DATA STATIONS MIN= .933
0.00000	1.22303
.38300	1.16825
.70700	.93005
.92400	.54763
1.00000	0.00000

STATION	LOADING-ANALYSIS STATIONS (HOR TAIL)
1.00000	0.00000
.97500	.19432
.90000	.63357
.80000	.80174
.70000	.93930
.60000	1.03974
.50000	1.10765
.40000	1.16026
.30000	1.19726
.20000	1.21517
.10000	1.22236
0.00000	1.22303
0.00000	1.22303

STATION	DX SWEEP
1.00000	-9.739
.97500	-10.153
.90000	-11.398
.80000	-13.057
.70000	-14.716
.60000	-16.375
.50000	-18.034
.40000	-19.692
.30000	-21.351
.20000	-23.010
.10000	-24.669
0.00000	-26.328
0.00000	-26.328

** WSPAN = [P/E2] *

VALUES FROM BCLA/K TABLES FOR AR= 2.5434 SWH= 36.60 TR= .5887 BA/K= 2.7488

TR=	0.00	.25	.50	1.00	
	.04991	.05070	.04961	.04622	(VERT TAIL)

VALUES FROM LOADING TABLES FOR MN= .343

1.34353	1.25953	1.20849	1.11791	STA= 0.000
1.21414	1.17918	1.16683	1.15742	STA= .383
.85269	.91148	.94039	.99405	STA= .707
.39018	.50671	.53397	.57762	STA= .924

STATION	LOADING AT DATA STATIONS MN= .333
0.00000	1.19190
.54200	1.16389
1.00000	.95026

STATION	LOADING-ANALYSIS STATIONS (VERT TAIL)
1.00000	.95026
.97702	.96310
.90807	1.00090
.81613	1.04910
.72420	1.09382
.63226	1.13329
.54033	1.16435
.44840	1.18357
.35646	1.19392
.26453	1.19837
.17259	1.19871
.08066	1.19607
0.00000	1.19190

STATION	DX SWEEP
1.00000	-23.587
.97702	-23.965
.90807	-25.101
.81613	-26.616
.72420	-28.131
.63226	-29.646
.54033	-31.160
.44840	-32.675
.35646	-34.190
.26453	-35.705
.17259	-37.219
.08066	-38.734
0.00000	-25.819

WING PARAMETERS ** USPAN = TP(52) *

CLA= 4.23109 KW(B)A= .90523 YW(B)A= 467.81 DXW(B)A= 323.61 DXB(W)A= 139.34

SIDE OF BODY UNITS

USZWB= .90523 UMXWB= 353.140 UMYWB=-151.860

SPANWISE UNIT DISTRIBUTIONS

STA	USZW(B)	UMXW(B)	UMYW(B)	MN= .333
SWEEP		SWEEP	SWEEP	
1.0000	0.00000	0.000	0.000	
.9770	.00233	.029	.015	
.9081	.03288	1.311	.232	
.8162	.10240	7.881	.767	
.7243	.18381	21.781	1.458	
.6324	.27464	44.046	2.304	
.5405	.37240	75.473	3.294	
.4486	.47477	116.613	4.414	
.3567	.58051	167.862	5.658	
.2648	.68835	229.484	7.016	
.1729	.79691	301.615	8.471	
.0810	.90523	384.286	10.012	
0.0000	1.00000	465.794	0.863	

FLAPS DEFLECTED PARAMETERS

** USPAN = TP(52) *

KBF= .66415 KW(R)F= .90874 YW(R)F= 397.42 UXW(R)F= 319.40 UXB(R)F= 164.33

SIDE OF BODY UNITS

USZFB= .90874 UMXFB= 290.406 UMYFB=-148.636

SPANWISE UNIT DISTRIBUTIONS

STA SWEEP	USZF(R)	UMXF(R) SWEEP	UMYF(R) SWEEP	MN= .933
1.0000	0.00000	0.000	0.000	
.9770	.00064	.008	-.005	
.9081	.01005	.397	-.088	
.8162	.03788	2.725	-.357	
.7243	.08629	8.755	-.873	
.6324	.16184	20.806	-1.752	
.5405	.26451	41.511	-3.049	
.4486	.38656	73.131	-4.711	
.3567	.51819	117.070	-6.636	
.2648	.65382	173.988	-8.757	
.1729	.78804	244.011	-10.991	
.0810	.90874	326.415	-13.120	
0.0000	1.00000	408.079	-16.176	

HOR TAIL PARAMETERS

** USPAN - IP(52) **

CLA= 3.80562 KH(B)=1.00000 YH= 137.33 DXH= 103.24

SIDE OF BODY UNITS

USZHB= 1.00000 UMXHB= 137.335 UMYHB= -36.008

SPANWISE UNIT DISTRIBUTIONS

STA SWEEP	USZH(B)	UMXH(B) SWEEP	UMYH(B) SWEEP
1.0000	0.00000	0.000	0.000
.9750	.00244	.010	.025
.9000	.03365	.452	.371
.8000	.10581	2.732	1.261
.7000	.19332	7.621	2.482
.6000	.29281	15.567	4.032
.5000	.40076	26.904	5.892
.4000	.51476	41.869	8.045
.3000	.63327	60.634	10.479
.2000	.75454	83.318	13.169
.1000	.87707	109.988	16.091
0.0000	1.00000	140.669	19.225
0.0000	1.00000	140.669	19.225

MN= .333

VERT TAIL PARAMETERS

** USPAN - IP(52) **

CYB= 2.70398 KV(B)= .91509 DZV= 160.15 DXV= 178.27

TOP OF BODY UNITS

USYVB= .91509 UMXVB= 135.767 UMZVB= -52.898

SPANWISE UNIT DISTRIBUTIONS

STA SWEEP	USYV(B)	UMXV(B) SWEEP	UMZV(B) SWEEP
1.0000	0.00000	0.000	0.000
.9770	.01939	.078	.461
.9081	.07909	1.275	1.926
.8161	.16217	5.182	4.076
.7242	.24902	11.842	6.455
.6323	.33928	21.370	9.064
.5403	.43241	33.868	11.896
.4484	.52756	49.416	14.934
.3565	.62392	68.065	18.155
.2645	.72088	89.845	21.544
.1726	.81803	114.769	25.086
.0807	.91509	142.839	28.772
0.0000	1.00000	170.051	31.514

MN= .333

CONDITION NO= 50817. MN= .333 ALT= 0. DF= 50.00 ** BNLDS - IP(50) **

BODY LOADS
PZN= -2895. PYN= 0. XBN= 319.57

WING PANEL LOAD
PZW(B)/2= 299152. YBW(B)= 385.46 XBW(B)= 972.37

WING CARRY-OVER LOAD
PZB(W)= 59630. XBB(W)= 822.47

HORIZONTAL TAIL LOADS
PZH/2= -9520. YBH=137.33 XBH= 1821.41 DMXH= 392225.

VERTICAL TAIL LOAD
PYV= 0. ZBV= 0.00 XBV= 1703.98

AIRPLANE INERTIA FACTORS
NZ= 2.00 NY= 0.00 QDOT= 0.000 RDOT= 0.000

COMPONENT SPANWISE FACTORS
PZW(B)A= -105652. PZW(B)F= 703957. PZH(B)= -19040.

WING LOADS COND NO= 60817. MN= .333 ALT= 0. DF= 50.00 ** SPARM - IP(51) **

SOM DIST= 77.70IN SM AT SOR= 299152.LB BM AT SOR= 92867024.IN-LB TM AT SOR= -68707744.IN-LB

STATION (IN)	SHEAR (LB)	BEND MOM (IN-LB)	TORS MOM (IN-LB)
1050.87	0.	0.	0.
1032.58	112.	1365.	-2947.
959.74	1975.	77391.	-47796.
882.81	8696.	595804.	-182945.
765.68	22096.	2120129.	-623162.
668.35	46657.	5488251.	-1313232.
571.22	80719.	11674258.	-2373249.
474.09	122018.	21920172.	-3982438.
376.96	166830.	35548060.	-5900546.
279.83	213069.	53097819.	-8001259.
182.70	259720.	76910232.	-10751546.
85.57	299152.	104003270.	-13665797.

HORIZONTAL TAIL LOADS COND NO= 60817. MN= .333 ALT= 0. ** SPARM - IP(51) **

SOM DIST= 0.00IN SM AT SOR= -10948.LB BM AT SOR= -1503531.IN-LB TM AT SOR= 394214.IN-LB

STATION (IN)	SHEAR (LB)	BEND MOM (IN-LB)	TORS MOM (IN-LB)
320.91	0.	0.	0.
318.76	-27.	-109.	-271.
294.22	-344.	-4056.	-4066.
261.53	-1158.	-29910.	-13801.
228.84	-2117.	-83439.	-27169.
196.14	-3206.	-170432.	-44146.
163.45	-4387.	-294565.	-66509.
130.76	-5636.	-458376.	-88076.
98.07	-6933.	-663815.	-116719.
65.38	-8261.	-912162.	-144176.
32.69	-9602.	-1204137.	-176159.
0.00	-10948.	-1540035.	-210476.

VERTICAL TAIL LOADS COND NO= 60817. MN= .333 ALT= 0. ** SPARM - IP(51) **

SOM DIST= 23.92IN SM AT SOR= 0.LB BM AT SOR= 392224.IN-LB TM AT SOR= 0.IN-LB

STATION (IN)	SHEAR (LB)	BEND MOM (IN-LB)	TORS MOM (IN-LB)
352.34	0.	330152.	211756.
344.24	0.	330152.	211756.
319.95	0.	330152.	211756.
287.55	0.	330152.	211756.
255.16	0.	330152.	211756.
222.77	0.	330152.	211756.
190.38	0.	330152.	211756.
157.99	0.	330152.	211756.
125.59	0.	330152.	211756.
93.20	0.	330152.	211756.
60.81	0.	330152.	211756.
28.42	0.	330152.	211756.

*** DESIGN LOADS (RECORD 32) AND RATIOS (RECORD 17) *** ** WHVNET - IP(53) *

* * * W I N G * * *

STATION	LC	+V	RS	RNZ	RC	RS*(+V)	RS*RNZ	RS*RNZ*RC
1	3	936.	1.000	1.000	1.000	936.	1.000	1.000
2	3	13288.	1.000	1.000	1.000	13288.	1.000	1.000
3	3	41825.	1.000	1.000	1.000	41825.	1.000	1.000
4	3	75692.	1.000	1.000	1.000	75692.	1.000	1.000
5	3	113527.	1.000	1.000	1.000	113527.	1.000	1.000
6	3	154039.	1.000	1.000	1.000	154039.	1.000	1.000
7	3	196147.	1.000	1.000	1.000	196147.	1.000	1.000
8	3	239356.	1.000	1.000	1.000	239356.	1.000	1.000
9	3	283162.	1.000	1.000	1.000	283162.	1.000	1.000
10	3	326989.	1.000	1.000	1.000	326989.	1.000	1.000
11	3	370443.	1.000	1.000	1.000	370443.	1.000	1.000

STATION	LC	-V	RS	RNZ	RC	RS*(-V)	RS*RNZ	RS*RNZ*RC
1	6	-362.	1.000	1.000	1.000	-362.	1.000	1.000
2	24	-4171.	1.000	0.000	1.000	-4171.	0.000	0.000
3	24	-11611.	1.000	0.000	1.000	-11611.	0.000	0.000
4	24	-21374.	1.000	0.000	1.000	-21374.	0.000	0.000
5	24	-33562.	1.000	0.000	1.000	-33562.	0.000	0.000
6	24	-48326.	1.000	0.000	1.000	-48326.	0.000	0.000
7	24	-62200.	1.000	0.000	1.000	-62200.	0.000	0.000
8	24	-86570.	1.000	0.000	1.000	-86570.	0.000	0.000
9	24	-126994.	1.000	0.000	1.000	-126994.	0.000	0.000
10	24	-154404.	1.000	0.000	1.000	-154404.	0.000	0.000
11	24	-185548.	1.000	0.000	1.000	-185548.	0.000	0.000

STATION	LC	+RM	RS	RNZ	RC	RS*(+RM)	RS*RNZ	RS*RNZ*RC
1	3	11361.	1.000	1.000	1.000	11361.	1.000	1.000
2	3	529448.	1.000	1.000	1.000	529448.	1.000	1.000
3	3	3206012.	1.000	1.000	1.000	3206012.	1.000	1.000
4	3	8913239.	1.000	1.000	1.000	8913239.	1.000	1.000
5	3	18102674.	1.000	1.000	1.000	18102674.	1.000	1.000
6	3	31097010.	1.000	1.000	1.000	31097010.	1.000	1.000
7	3	48103793.	1.000	1.000	1.000	48103793.	1.000	1.000
8	3	69253995.	1.000	1.000	1.000	69253995.	1.000	1.000
9	3	94630052.	1.000	1.000	1.000	94630052.	1.000	1.000
10	3	124261996.	1.000	1.000	1.000	124261996.	1.000	1.000
11	3	158132728.	1.000	1.000	1.000	158132728.	1.000	1.000

STATION	LC	-RM	RS	RNZ	RC	RS*(-RM)	RS*RNZ	RS*RNZ*RC
1	24	-2942.	1.000	0.000	1.000	-2942.	0.000	0.000
2	24	-157483.	1.000	0.000	1.000	-157483.	0.000	0.000
3	24	-923263.	1.000	0.000	1.000	-923263.	0.000	0.000
4	24	-2523080.	1.000	0.000	1.000	-2523080.	0.000	0.000
5	24	-5185238.	1.000	0.000	1.000	-5185238.	0.000	0.000
6	24	-9149927.	1.000	0.000	1.000	-9149927.	0.000	0.000
7	24	-14144319.	1.000	0.000	1.000	-14144319.	0.000	0.000
8	24	-22407393.	1.000	0.000	1.000	-22407393.	0.000	0.000
9	24	-31472758.	1.000	0.000	1.000	-31472758.	0.000	0.000
10	24	-45193596.	1.000	0.000	1.000	-45193596.	0.000	0.000
11	24	-61761039.	1.000	0.000	1.000	-61761039.	0.000	0.000

*** DESIGN LOADS (RECORD 32) AND RATIOS (RECORD 17) *** ** WHVNET = IP(53) *

*** HORIZONTAL TAIL ***

STATION	LC	+V	RS	RNZ	RS*(+V)	RS*RNZ
1	3	57.	1.000	-2.500	57.	-2.500
2	15	1522.	1.000	3.628	1522.	3.628
3	15	4812.	1.000	3.628	4812.	3.628
4	15	8825.	1.000	3.628	8825.	3.628
5	15	13384.	1.000	3.628	13384.	3.628
6	15	18313.	1.000	3.628	18313.	3.628
7	15	23499.	1.000	3.628	23499.	3.628
8	15	28875.	1.000	3.628	28875.	3.628
9	15	34362.	1.000	3.628	34362.	3.628
10	15	39893.	1.000	3.628	39893.	3.628
11	15	45429.	1.000	3.628	45429.	3.628

STATION	LC	-V	RS	RNZ	RS*(-V)	RS*RNZ
1	16	-74.	1.000	1.807	-74.	1.807
2	11	-1131.	1.000	2.251	-1131.	2.251
3	11	-3574.	1.000	2.251	-3574.	2.251
4	11	-6555.	1.000	2.251	-6555.	2.251
5	11	-9940.	1.000	2.251	-9940.	2.251
6	11	-13601.	1.000	2.251	-13601.	2.251
7	11	-17453.	1.000	2.251	-17453.	2.251
8	11	-21445.	1.000	2.251	-21445.	2.251
9	11	-25521.	1.000	2.251	-25521.	2.251
10	11	-29629.	1.000	2.251	-29629.	2.251
11	11	-33740.	1.000	2.251	-33740.	2.2 1

STATION	LC	+BM	RS	RNZ	RS*(+BM)	RS*RNZ
1	3	232.	1.000	-2.500	232.	-2.5 0
2	15	20459.	1.000	3.628	20459.	3.628
3	15	124000.	1.000	3.628	124000.	3.628
4	15	344910.	1.000	3.628	344910.	3.628
5	15	709933.	1.000	3.628	709933.	3.628
6	15	1228034.	1.000	3.628	1228034.	3.628
7	15	1911466.	1.000	3.628	1911466.	3.628
8	15	2767539.	1.000	3.628	2767539.	3.628
9	15	3801173.	1.000	3.628	3801173.	3.628
10	15	5014911.	1.000	3.628	5014911.	3.628
11	15	6409543.	1.000	3.628	6409543.	3.628

STATION	LC	-BM	RS	RNZ	RS*(-BM)	RS*R 7
1	6	-23.	1.000	-.400	-23.	-.400
2	11	-18195.	1.000	2.251	-18195.	2.251
3	11	-92095.	1.000	2.251	-92095.	2.251
4	11	-257650.	1.000	2.251	-257650.	2.251
5	11	-527268.	1.000	2.251	-527268.	2.251
6	11	-912061.	1.000	2.251	-912061.	2.251
7	11	-1419647.	1.000	2.251	-1419647.	2.251
8	11	-2055453.	1.000	2.251	-2055453.	2.251
9	11	-2823134.	1.000	2.251	-2823134.	2.251
10	11	-3724577.	1.000	2.251	-3724577.	2.251
11	11	-4760372.	1.000	2.251	-4760372.	2.251

THE POSITIVE AND NEGATIVE LOADS ON THE HORIZONTAL TAIL HAVE BEEN REVERSED
BECAUSE THE NEGATIVE BM AT THE ROOT WAS GREATER THAN THE POSITIVE BM AT THE ROOT

*** DESIGN LOADS (RECORD 32) AND RATIOS (RECORD 17) *** ** WHVNET = IP(53) =

*** VERTICAL TAIL ***

STATION	LC	+V	RS	RNZ	RS*(+V)	RS*RNZ
1	22	1926.	1.000	.531	1926.	.531
2	22	7860.	1.000	.531	7860.	.531
3	22	16121.	1.000	.531	16121.	.531
4	22	24759.	1.000	.531	24759.	.531
5	22	33740.	1.000	.531	33740.	.531
6	22	43008.	1.000	.531	43008.	.531
7	22	52482.	1.000	.531	52482.	.531
8	22	62078.	1.000	.531	62078.	.531
9	22	71737.	1.000	.531	71737.	.531
10	22	81418.	1.000	.531	81418.	.531
11	22	91094.	1.000	.531	91094.	.531

STATION	LC	-V	RS	RNZ	RS*(-V)	RS*RNZ
1	22	-1926.	1.000	.531	-1926.	.531
2	22	-7860.	1.000	.531	-7860.	.531
3	22	-16121.	1.000	.531	-16121.	.531
4	22	-24759.	1.000	.531	-24759.	.531
5	22	-33740.	1.000	.531	-33740.	.531
6	22	-43008.	1.000	.531	-43008.	.531
7	22	-52482.	1.000	.531	-52482.	.531
8	22	-62078.	1.000	.531	-62078.	.531
9	22	-71737.	1.000	.531	-71737.	.531
10	22	-81418.	1.000	.531	-81418.	.531
11	22	-91094.	1.000	.531	-91094.	.531

STATION	LC	+HM	RS	RNZ	RS*(+HM)	RS*RNZ
1	15	1363580.	1.000	0.000	1363580.	0.000
2	15	1363580.	1.000	0.000	1363580.	0.000
3	15	1363580.	1.000	0.000	1363580.	0.000
4	23	1436794.	1.000	.530	1436794.	.530
5	23	2370127.	1.000	.530	2370127.	.530
6	23	3595840.	1.000	.530	3595840.	.530
7	23	5122204.	1.000	.530	5122204.	.530
8	23	6956735.	1.000	.530	6956735.	.530
9	23	9094558.	1.000	.530	9094558.	.530
10	23	11549134.	1.000	.530	11549134.	.530
11	23	14312770.	1.000	.530	14312770.	.530

STATION	LC	-HM	RS	RNZ	RS*(-HM)	RS*RNZ
1	15	-1363580.	1.000	0.000	-1363580.	0.000
2	15	-1363580.	1.000	0.000	-1363580.	0.000
3	15	-1363580.	1.000	0.000	-1363580.	0.000
4	23	-1436794.	1.000	.530	-1436794.	.530
5	23	-2370127.	1.000	.530	-2370127.	.530
6	23	-3595840.	1.000	.530	-3595840.	.530
7	23	-5122204.	1.000	.530	-5122204.	.530
8	23	-6956735.	1.000	.530	-6956735.	.530
9	23	-9094558.	1.000	.530	-9094558.	.530
10	23	-11549134.	1.000	.530	-11549134.	.530
11	23	-14312770.	1.000	.530	-14312770.	.530

** BLCNTL - IP(54) **

	LOAD CONDITION	ALTITUDE FEET	MACH NUMBER	PRESSURE PSI	LOCAL TEMP DEG R	TOTAL TEMP DEG R	SUN FLUX BTU/HR/FT2	SKIN TEMP DEG R	SKIN TEMP DEG F	STRESS WING	STRESS HORIZONTAL	STRESS VERTICAL
1	+NZ BALANCED	0.	0.6000	14.70	518.7	556.0	358.8	555.0	95.3	66000.	66000.	66000.
2	+NZ BALANCED	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.
3	+NZ BALANCED	22500.	0.8700	6.08	438.4	504.8	429.1	505.5	80.0	66000.	66000.	66000.
4	+NZ BALANCED	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.
5	+NZ BALANCED	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.
6	-NZ BALANCED	0.	0.5740	14.70	518.7	552.8	358.8	552.4	92.7	66000.	66000.	66000.
7	-NZ BALANCED	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.
8	FLAP DOWN MANEUVER	0.	0.3234	14.70	518.7	530.2	358.8	534.7	80.0	66000.	66000.	66000.
9	FLAP DOWN 1 G TRIM	0.	0.1869	14.70	518.7	522.3	358.8	531.4	80.0	66000.	66000.	66000.
10	+ VERTICAL GUST	0.	0.5740	14.70	518.7	552.8	358.8	552.4	92.7	66000.	66000.	66000.
11	+ VERTICAL GUST	20000.	0.8140	6.75	447.3	506.6	425.0	507.6	80.0	66000.	66000.	66000.
12	+ VERTICAL GUST	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.
13	+ VERTICAL GUST	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.
14	- VERTICAL GUST	0.	0.5740	14.70	518.7	552.8	358.8	552.4	92.7	66000.	66000.	66000.
15	- VERTICAL GUST	20000.	0.8140	6.75	447.3	506.6	425.0	507.6	80.0	66000.	66000.	66000.
16	- VERTICAL GUST	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.
17	- VERTICAL GUST	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.
18	LATERAL GUST	0.	0.5740	14.70	518.7	552.8	358.8	552.4	92.7	66000.	66000.	66000.
19	LATERAL GUST	20000.	0.8140	6.75	447.3	506.6	425.0	507.6	80.0	66000.	66000.	66000.
20	PITCH ACCELERATION	0.	0.6000	14.70	518.7	556.0	358.8	555.0	95.3	66000.	66000.	66000.
21	PITCH ACCELERATION	22500.	0.8700	6.08	438.4	504.8	429.1	505.5	80.0	66000.	66000.	66000.
22	YAW ACCELERATION	0.	0.6000	14.70	518.7	556.0	358.8	555.0	95.3	66000.	66000.	66000.
23	YAW ACCELERATION	22500.	0.8700	6.08	438.4	504.8	429.1	505.5	80.0	66000.	66000.	66000.

DESIGN TEMPERATURE CONDITION

WING	80.0	3
HORIZONTAL	80.0	15
VERTICAL	80.0	23

*** MAXIMUM NET BENDING MOMENTS FOR FATIGUE ***

BM AT SOB	CONDITION	NZ	INERTIA BM/NZ	NET BM AT SOB
140137616.	3	2.50	-28266704.	69470864.

BM AT STA 2	CONDITION	NZ	INERTIA BM/NZ	NET BM AT STA 2
124261152.	3	2.50	-22037552.	69167280.

SPECTRA SEGMENT NO 1.

SOF BEND MOM	WOS BEND MOM	EXCEEDANCES-GUST	EXCEEDANCES-MAN
103367919.	96459687.	.65545E-10	0.
95207294.	88844449.	.16170E-08	0.
87046666.	81229210.	.39890E-07	.45000E-01
78886043.	73613972.	.98406E-06	.25500E+00
70725418.	65998734.	.24276E-04	.13500E+01
62564793.	58383495.	.59889E-03	.60000E+01
54404168.	50768257.	.14774E-01	.28500E+02
46243543.	43153018.	.36447E+00	.15750E+03
38082917.	35537780.	.90369E+01	.22050E+04
29922292.	27922541.	.38250E+04	.10500E+06
24481876.	22845715.	.38250E+04	.12000E+05
16321250.	15230477.	.90369E+01	.20400E+03
8160625.	7615238.	.36447E+00	.45000E+00
0.	0.	.14774E-01	.15000E-02
-8160625.	-7615238.	.59889E-03	0.
-16321250.	-15230477.	.24276E-04	0.
-24481876.	-22845715.	.98406E-06	0.
-32642501.	-30460954.	.39890E-07	0.
-40803126.	-38076192.	.16170E-08	0.
-48963751.	-45691431.	.65545E-10	0.

1G SOF M = 27202084. 1G WOS M = 25384128.

SPECTRA SEGMENT NO 11.

GROUND-AIR-GROUND CYCLES

SOF BEND MOM	WOS BEND MOM	OCCURRENCES
34002605.	31730160.	.12000E+05
-34738299.	-27116158.	.12000E+05

OUTPUT TABLES AND CONTROLS

FATIGUE ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for fatigue module
56	(5,0)	Fatigue	FATGUE	BC array, input data from FATMG subroutine in loads program
57	(5,0)	Fatigue	FTGCTL	Stress spectra for wing at side of fuselage
57	(5,0)	Fatigue	FATIGU	Number of iterations, calculated life, etc
57	(5,0)	Fatigue	FTGCTL	N value at end of each spectra segment
57	(5,0)	Fatigue	FTGCTL	Fuselage pressure cycle input
57	(5,0)	Fatigue	FATIGU	Final damage table and endurance limit starting values
57	(5,0)	Fatigue	FATIGU	Damage table
58	(5,0)	Fatigue	FATIGU	Intermediate values of life interpolation calculations
-	(5,0)	Fatigue	FATIGU	Final results

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                                                    ** OLAY00 - IP(40) *

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT     AUGUST 1973
C 141 TEST CASE                  ---NO. 1 ---


                                 **** F A T I G U E (OVERLAY 5) ****
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*** BMA(3,220) FROM SUBROUTINE FATMG IN LOADS PROGRAM IN RECORD 35 ***

	SOF BEND MOM	WOS BEND MOM	EXCEEDANCES-GUST	EXCEEDANCES-MANU
1	103367919.	96459687.	.65545E-10	0.
2	95207294.	88844449.	.16170E-08	0.
3	87046668.	81229210.	.39890E-07	.45000E-01
4	78886043.	73613972.	.98406E-06	.25500E+00
5	70725418.	65998734.	.24276E-04	.13500E+01
6	62564793.	58383495.	.59889E-03	.60000E+01
7	54404168.	50768257.	.14774E-01	.28500E+02
8	46243543.	43153018.	.36447E+00	.15750E+03
9	38082917.	35537780.	.90369E+01	.22050E+04
10	29922292.	27922541.	.38250E+04	.10500E+06
11	24481876.	22845715.	.38250E+04	.12000E+05
12	16321250.	15230477.	.90369E+01	.20400E+03
13	8160625.	7615238.	.36447E+00	.45000E+00
14	0.	0.	.14774E-01	.15000E-02
15	-8160625.	-7615238.	.59889E-03	0.
16	-16321250.	-15230477.	.24276E-04	0.
17	-24481876.	-22845715.	.98406E-06	0.
18	-32642501.	-30460954.	.39890E-07	0.
19	-40803126.	-38076192.	.16170E-08	0.
20	-48963751.	-45691431.	.65545E-10	0.
21	83727029.	76706373.	.21444E-05	0.
22	77117000.	70650607.	.20139E-04	0.
23	70506972.	64594841.	.18915E-03	.45000E-01
24	63896943.	58539074.	.17764E-02	.25500E+00
25	57286915.	52483308.	.16684E-01	.13500E+01
26	50676886.	46427542.	.15669E+00	.60000E+01
27	44066857.	40371775.	.14721E+01	.28500E+02
28	37456829.	34316009.	.14046E+02	.15750E+03
29	30846800.	28260243.	.24215E+03	.22050E+04
30	24236772.	22204476.	.57455E+05	.10500E+06
31	19830086.	18167299.	.57455E+05	.12000E+05
32	13220057.	12111533.	.24215E+03	.20400E+03
33	6610029.	6055766.	.14046E+02	.45000E+00
34	0.	0.	.14721E+01	.15000E-02
35	-6610029.	-6055766.	.15669E+00	0.
36	-13220057.	-12111533.	.16684E-01	0.
37	-19830086.	-18167299.	.17764E-02	0.
38	-26440114.	-24223065.	.18915E-03	0.
39	-33050143.	-30278832.	.20139E-04	0.
40	-39660172.	-36334598.	.21444E-05	0.
41	91581788.	86146921.	.16066E-04	0.
42	84351647.	79345848.	.12323E-03	0.
43	77121506.	72544775.	.94515E-03	0.
44	69891364.	65743703.	.72494E-02	0.
45	62661223.	58942630.	.55603E-01	.22500E-01
164	-49212590.	-38414557.	.36000E+00	0.
165	-46317732.	-36154877.	.10800E+02	0.
166	-43422873.	-33895197.	.24000E+03	0.
167	-40528015.	-31635517.	.54000E+04	0.
168	-37633157.	-29375838.	.10800E+06	0.

169	-34738299.	-27116158.	.10320E+07	0.
170	-31843440.	-24856478.	.39600E+07	0.
171	-26053724.	-20337118.	.39600E+07	0.
172	-23158866.	-18077439.	.10320E+07	0.
173	-20264008.	-15817759.	.10800E+06	0.
174	-17369149.	-13558079.	.54000E+04	0.
175	-14474291.	-11298399.	.24000E+03	0.
176	-11579433.	-9038719.	.10800E+02	0.
177	-8684575.	-6779039.	.36000E+00	0.
178	-5789716.	-4519360.	.12000E-01	0.
179	-4342287.	-3389520.	.24000E-02	0.
180	-2894858.	-2259680.	.48000E-03	0.
181	-39353897.	-30723214.	.48000E-03	0.
182	-38318268.	-29914708.	.24000E-02	0.
183	-37282640.	-29106203.	.12000E-01	0.
184	-35211382.	-27489191.	.36000E+00	0.
185	-33140124.	-25872180.	.10800E+02	0.
186	-31068866.	-24255169.	.24000E+03	0.
187	-28997609.	-22638158.	.54000E+04	0.
188	-26926351	-21021146.	.10800E+06	0.
189	-24855093.	-19404135.	.10320E+07	0.
190	-22783835.	-17787124.	.39600E+07	0.
191	-18641320.	-14553101.	.39600E+07	0.
192	-16570062.	-12936090.	.10320E+07	0.
193	-14498804.	-11319079.	.10800E+06	0.
194	-12427547.	-9702068.	.54000E+04	0.
195	-10356289.	-8085056.	.24000E+03	0.
196	-8285031.	-6468045.	.10800E+02	0.
197	-6213773.	-4851034.	.36000E+00	0.
198	-4142516.	-3234023.	.12000E-01	0.
199	-3106887.	-2425517.	.24000E-02	0.
200	-2071258.	-1617011.	.48000E-03	0.
201	34002605.	31730160.	.12000E+05	0.
202	-34738299.	-27116158.	.12000E+05	0.

REFERENCE BENDING MOMENTS FOR MANEUVER

SEGMENT	SOP	WOS
1	27202084.	25384128.
2	22033429.	20185888.
3	24100471.	22670242.
4	22440940.	21665955.
5	24274723.	22623887.
6	21841307.	20259060.
7	21899509.	20232652.
8	22007397.	20197392.

BMSMX(1) = 69061619.
BMSMX(2) = 67905172.

FATIGUE INPUT DATA ** FTBCTL = IP(57) *

M= .3000000E+05 SF= .4000000E+01 KT= .3000000E+01

FTU= .8100000E+05 E= .1050000E+08 RA= .1800000E+00

NPT= 157

SIDE OF FUSELAGE

STRESS LEVELS SET UP FROM BENDING MOMENTS TIMES .413571E-03

1	.4050000E+05	-.1800000E+05	.1551425E-08
2	.3712500E+05	-.1462500E+05	.3827290E-07
3	.3712500E+05	.1125000E+05	.4500000E-01
4	.3375000E+05	-.1125000E+05	.9441740E-06
5	.3375000E+05	.1125000E+05	.2100000E+00
6	.3037500E+05	-.7875000E+04	.2329231E-04
7	.3037500E+05	.1125000E+05	.1095000E+01
8	.2700000E+05	-.4500000E+04	.5746101E-03
9	.2700000E+05	.1125000E+05	.4650000E+01
10	.2362500E+05	-.1125000E+04	.1417535E-01
11	.2362500E+05	.1125000E+05	.2250000E+02
12	.1125000E+05	-.1125000E+04	.1500000E-02
13	.2025000E+05	.2250000E+04	.3494996E+00
14	.2025000E+05	.1125000E+05	.1290000E+03
15	.1125000E+05	.2250000E+04	.4485000E+00
16	.1687500E+05	.5625000E+04	.8672425E+01
17	.1687500E+05	.1125000E+05	.2047500E+04
18	.1125000E+05	.5625000E+04	.2035500E+03
19	.1350000E+05	.9000000E+04	.3815917E+04
20	.1350000E+05	.1125000E+05	.1027950E+06
21	.1125000E+05	.9000000E+04	.1179600E+05
22	.3280461E+05	-.1457983E+05	.1799502E-04
23	.3007090E+05	-.1184611E+05	.1690061E-03
24	.3007090E+05	.9112393E+04	.4500000E-01
25	.2733718E+05	-.9112393E+04	.1587276E-02
26	.2733718E+05	.9112393E+04	.2100000E+00
27	.2460346E+05	-.6378675E+04	.1490742E-01
28	.2460346E+05	.9112393E+04	.1095000E+01
29	.2186974E+05	-.3644957E+04	.1400087E+00
30	.2186974E+05	.9112393E+04	.4650000E+01
31	.1913602E+05	-.9112393E+03	.1315376E+01
32	.1913602E+05	.9112393E+04	.2250000E+02
33	.9112393E+04	-.9112393E+03	.1500000E-02
105	.2167905E+05	-.3613175E+04	.3198012E+01
106	.2167905E+05	.9032937E+04	.1410000E+00
107	.1896917E+05	-.9032937E+03	.1491807E+02
108	.1896917E+05	.9032937E+04	.2850000E+01
109	.9032937E+04	-.9032937E+03	.3000000E-02

110	.1625929E+05	.1806587E+04	.7594889E+02
111	.1625929E+05	.9032937E+04	.7200000E+02
112	.9032937E+04	.1806587E+04	.4470000E+00
113	.1354941E+05	.4516468E+04	.1279552E+04
114	.1354941E+05	.9032937E+04	.2400000E+04
115	.9032937E+04	.4516468E+04	.6556000E+02
116	.1083952E+05	.7226349E+04	.1359838E+06
117	.1083952E+05	.9032937E+04	.8752500E+05
118	.9032937E+04	.7226349E+04	.5694000E+04
119	.3260523E+05	-.1449121E+05	.3258945E-02
120	.2988812E+05	-.1177411E+05	.1671530E-01
121	.2717102E+05	-.9057007E+04	.8573380E-01
122	.2445392E+05	-.6339905E+04	.4397499E+00
123	.2445392E+05	.9057007E+04	.4500000E-02
124	.2173682E+05	-.3622803E+04	.2257070E+01
125	.2173682E+05	.9057007E+04	.7050000E-01
126	.1901972E+05	-.9057007E+03	.1172337E+02
127	.1901972E+05	.9057007E+04	.1425000E+01
128	.9057007E+04	-.9057007E+03	.1500000E-02
129	.1630261E+05	.1811401E+04	.7383704E+02
130	.1630261E+05	.9057007E+04	.3600000E+02
131	.9057007E+04	.1811401E+04	.2235000E+00
132	.1358551E+05	.4528504E+04	.1659159E+04
133	.1358551E+05	.9057007E+04	.1200000E+04
134	.9057007E+04	.4528504E+04	.3277500E+02
135	.1086841E+05	.7245606E+04	.1281206E+06
136	.1086841E+05	.9057007E+04	.4376250E+05
137	.9057007E+04	.7245606E+04	.2847000E+04
138	.3276586E+05	-.1456260E+05	.7486682E-04
139	.3003537E+05	-.1183212E+05	.7674457E-03
140	.2730488E+05	-.9101627E+04	.7871600E-02
141	.2457439E+05	-.6371139E+04	.8077513E-01
142	.2457439E+05	.9101627E+04	.4500000E-02
143	.2184390E+05	-.3640651E+04	.8349259E+00
144	.2184390E+05	.9101627E+04	.7050000E-01
145	.1911342E+05	-.9101627E+03	.9259675E+01
146	.1911342E+05	.9101627E+04	.1425000E+01
147	.9101627E+04	-.9101627E+03	.1500000E-02
148	.1638293E+05	.1820325E+04	.1676539E+03
149	.1638293E+05	.9101627E+04	.3600000E+02
150	.9101627E+04	.1820325E+04	.2235000E+00
151	.1365244E+05	.4550813E+04	.9276279E+04
152	.1365244E+05	.9101627E+04	.1200000E+04
153	.9101627E+04	.4550813E+04	.3277500E+02
154	.1092195E+05	.7281302E+04	.8815502E+06
155	.1092195E+05	.9101627E+04	.4376250E+05
156	.9101627E+04	.7281302E+04	.2847000E+04
157	.1406250E+05	-.1436676E+05	.1200000E+05

NUMBER OF ITERATIONS IN SUBROUTINE FATIGU = 3 ** FATIGU - IP(27) *

CALC. LIFE(HR) REQUIRED LIFE(HR)
.119893E+06 .120000E+06 HIGHEST FMAX= .341938E+05 = 42.20PCT FTU

N	FMAX	FMIN	APP.CYC.	DAMAGE 1	PCT	DAMAGE 2	PCT
1	34184.	-15193.	0.	.128896E-12	.00	.128896E-12	.00
2	31335.	-12344.	0.	.184651E-11	.00	.233603E-11	.00
3	31335.	9495.	0.	.185456E-06	.00	.562725E-05	.18
4	28486.	-9495.	0.	.233268E-10	.00	.399611E-10	.00
5	28486.	9495.	0.	.361169E-06	.00	.103109E-04	.33
6	25638.	-6647.	0.	.244435E-09	.00	.602215E-09	.00
7	25638.	9495.	0.	.594367E-06	.00	.166927E-04	.53
8	22789.	-3798.	0.	.191724E-08	.00	.705587E-08	.00
9	22789.	9495.	0.	.506132E-06	.00	.139086E-04	.44
10	19941.	-950.	0.	.924206E-08	.00	.493874E-07	.00
11	19941.	9495.	1.	.233230E-06	.00	.534754E-05	.17
12	9495.	-950.	0.	.389825E-12	.00	.876964E-12	.00
13	17092.	1899.	0.	.197454E-07	.00	.111634E-06	.00
14	17092.	9495.	6.	.409240E-07	.00	.521089E-06	.02
15	9495.	1899.	0.	.689509E-11	.00	.165238E-10	.00
16	14243.	4748.	0.	.605947E-08	.00	.281056E-07	.00
17	14243.	9495.	102.	.290406E-08	.00	.173835E-07	.00
18	9495.	4748.	10.	.369677E-10	.00	.939687E-10	.00
19	11395.	7596.	191.	.178591E-09	.00	.587118E-09	.00
20	11395.	9495.	5140.	.451351E-11	.00	.156945E-10	.00
21	9495.	7596.	590.	.217964E-12	.00	.588133E-12	.00
22	27689.	-12306.	0.	.521516E-09	.00	.588138E-09	.00
23	25381.	-9999.	0.	.259493E-08	.00	.371393E-08	.00
24	25381.	7691.	0.	.352802E-07	.00	.726938E-06	.02
25	23074.	-7691.	0.	.109936E-07	.00	.207487E-07	.00
26	23074.	7691.	0.	.542938E-07	.00	.105771E-05	.03
27	20766.	-5384.	0.	.367602E-07	.00	.942475E-07	.00
28	20766.	7691.	0.	.651764E-07	.00	.113383E-05	.04
29	18459.	-3077.	0.	.861563E-07	.00	.294090E-06	.01
30	18459.	7691.	0.	.378371E-07	.00	.509089E-06	.02
31	16152.	-769.	0.	.114556E-06	.00	.460040E-06	.01

32	16152.	7691.	1.	.123859E-07	.00	.104176E-06	.00
33	7691.	-769.	0.	.308562E-13	.00	.649776E-13	.00
34	13844.	1538.	1.	.593330E-07	.00	.216854E-06	.01
35	13844.	7691.	6.	.173188E-08	.00	.870418E-08	.00
36	7691.	1538.	0.	.473343E-12	.00	.103728E-11	.00
37	11537.	3846.	11.	.890399E-08	.00	.267264E-07	.00
38	11537.	7691.	102.	.115278E-09	.00	.387439E-09	.00
39	7691.	3846.	10.	.220889E-11	.00	.501509E-11	.00
40	9230.	6153.	2861.	.127491E-09	.00	.326950E-09	.00
133	11467.	7645.	60.	.616945E-10	.00	.205085E-09	.00
134	7645.	3822.	2.	.328419E-12	.00	.744055E-12	.00
135	9173.	6116.	6406.	.262119E-09	.00	.669134E-09	.00
136	9173.	7645.	2188.	.744491E-13	.00	.196334E-12	.00
137	7645.	6116.	142.	.248705E-14	.00	.586090E-14	.00
138	27656.	-12291.	0.	.215574E-08	.00	.243304E-08	.00
139	25351.	-9987.	0.	.117040E-07	.00	.167626E-07	.00
140	23047.	-7682.	0.	.540929E-07	.00	.102142E-06	.00
141	20742.	-5378.	0.	.197387E-06	.00	.506189E-06	.02
142	20742.	7682.	0.	.264186E-09	.00	.458019E-08	.00
143	18437.	-3073.	0.	.508502E-06	.00	.173433E-05	.05
144	18437.	7682.	0.	.564855E-09	.00	.756447E-08	.00
145	16133.	-768.	0.	.796424E-06	.00	.319250E-05	.10
146	16133.	7682.	0.	.771198E-09	.00	.644611E-08	.00
147	7682.	-768.	0.	.304197E-13	.00	.640436E-13	.00
148	13828.	1536.	8.	.778427E-06	.00	.284151E-05	.09
149	13828.	7682.	2.	.474825E-09	.00	.237724E-08	.00
150	7682.	1536.	0.	.232387E-12	.00	.509079E-12	.00
151	11523.	3841.	464.	.356260E-06	.00	.106755E-05	.03
152	11523.	7682.	60.	.663788E-10	.00	.222616E-09	.00
153	7682.	3841.	2.	.350176E-12	.00	.794724E-12	.00
154	9219.	6146.	4407.	.193227E-08	.00	.495082E-08	.00
155	9219.	7682.	2188.	.799464E-13	.00	.211679E-12	.00
156	7682.	6146.	142.	.265972E-14	.00	.628075E-14	.00
157	11869.	-12126.	600.	.391031E-02	1.56	.299741E-02	94.63
	CUMULATIVE DAMAGE FOR EACH BLOCK			.393216E-02	1.57	.311761E-02	98.43

NUMBER OF RESIDUAL DAMAGE BLOCKS 78.928

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 N FOR END OF EACH SPECTRA SEGMENT FOLLOWS    ** FTGCTL = IP(57) *

    1       21
    2       42
    3       61
    4       80
    5       99
    6      118
    7      137
    8      156
    9      156
   10      156
FATIGUE  INPUT DATA

H=  .3000000E+05     SF=  .4000000E+01     KT=  .3000000E+01

P10=  .7300000E+05     F=  .1050001E+08     RA=  .1800000E+00 NPT= 1



FUSELAGE COVER

STRESS LEVELS SET UP FROM FUSELAGE PRESSURES TIMES   .212209E+04

          1       .1825000E+05       0.                    .2000000E+05
```

NUMBER OF ITERATIONS IN SUBROUTINE FATIGU = 3 ** FATIGU - IP(87) *

CALC. LIFE(HR) .119924E+06 REQUIRED LIFE(HR) .120000E+06 HIGHEST FMAX= .162633E+05 = 22.28PCT FTU

N	FMAX	FMIN	APP.CYC.	DAMAGE 1	PCT	DAMAGE 2	PCT
1	16263.	0.	1000.	.312698E-02	1.25	.312698E-02	98.75
	CUMULATIVE DAMAGE FOR EACH BLOCK			.312698E-02	1.25	.312698E-02	98.75

NUMBER OF RESIDUAL DAMAGE BLOCKS 78.949

ENDURANCE LIMIT

1 .3650000E+05 -.3650000E+05 .1000000E+10

NUMBER OF ITERATIONS IN SUBROUTINE FATIGU = 3

CALC. LIFE(HR) .299797E+05 REQUIRED LIFE(HR) .300000E+05 HIGHEST FMAX= .139254E+05 = 19.08PCT FTU

N	FMAX	FMIN	APP.CYC.	DAMAGE 1	PCT	DAMAGE 2	PCT
1	13925.	-13925.	50000000.	.500339E-01	5.00	.500339E-01	95.00
	CUMULATIVE DAMAGE FOR EACH BLOCK			.500339E-01	5.00	.500339E-01	95.00

NUMBER OF RESIDUAL DAMAGE BLOCKS 18.986

65	.1984500E+00	.9707453E+05	.7714286E-02	.1194851E+01	.1015597E+01
70	.1163592E+00	.9327303E+01	.4994507E+00	.5313074E+01	.1050000E+05
75	.2045121E-07	.1006377E+06	.6313074E+01	.5000000E+00	.1000000E+10

CURVE SET-UP

.9523809E-07	.1000000E+01	.1205151E+00	.1000000E+01
.2994901E-05	.3117409E+02	.4535945E-01	.1000000E+02
.9255066E-04	.9718240E+03	.1848093E-01	.1000000E+03
.3030371E-02	.3029573E+05	.9123980E-02	.1000000E+04
.1154123E-01	.6059167E+06	.5519744E-02	.1000000E+05
.5842584E-01	.9088720E+06	.3857074E-02	.1000000E+06
.1214051E+05	.9382858E+08	.2297918E-02	.1000000E+08
.2994353E+10	.9084515E+07	.1187031E-02	.1000000E+11
.7234552E+15	.1000000E+09	.5022396E-03	.1000000E+15
		.1716067E-03	.1000000E+20

-10.168886	0.000000	-2.047343	0.000000
-12.727498	3.479587	-3.093137	2.302585
-9.287711	6.879175	-3.991014	4.605170
-6.799070	10.281762	-4.689849	6.907755
-6.484184	11.011909	-5.298849	9.210340
-7.839997	11.417376	-5.557847	11.512925
9.006797	13.751810	-6.075759	14.118049
21.809925	16.098284	-6.776300	23.025851
36.215040	18.420481	-7.594434	32.236191
		-8.670305	43.749117

***** NTIME= 1 HCALC= .3046845E+05 FACTOR= .7045365E+00 TF= .7045365E+00
.1033035E+02 .1491894E+02 0. 0.
0. .1488926E+02 .1149525E+02 -.2274823E+00

***** NTIME= 2 HCALC= .2004313E+04 FACTOR= .1064208E+01 TF= .8476792E+01
.1033035E+02 .1491894E+02 .1220922E+02 .1448964E+02
.1220922E+02 .1475171E+02 .1149525E+02 -.2729439E+05

***** NTIME= 3 HCALC= .1154047E+04 FACTOR= .9957108E+00 TF= .8440433E+00
.1165711E+02 .1475171E+02 .1220922E+02 .1448964E+02
.1165711E+02 .1474761E+02 .1149525E+02 -.2824320E+05

CHANGES MADE TO MATERIAL PROPERTIES BY FATIGUE PROGRAM ** FTGATL *

SIDE OF FUSELAGE ** MATL NO 4.
TMD(133) CHANGED FROM 1.0000 TO .2933

WING STATION 2 ** MATL NO 4.
TMD(134) CHANGED FROM 1.0000 TO .3242

FUSELAGE COVER ** MATL NO 4.
TMD(130) CHANGED FROM .2250 TO .1908
TMD(132) CHANGED FROM .4000 TO .2228

FUSELAGE MINOR FRAME ** MATL NO 4.
TMD(130) CHANGED FROM .2250 TO .1908
TMD(132) CHANGED FROM .4000 TO .2228

OUTPUT TABLE AND CONTROLS

LANDING GEAR STRUCTURAL WEIGHT ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for landing gear module
59	(6,0)	Landing Gear	LANDGR	Landing gear input data
60	(6,0)	Landing Gear	LGEAR	Landing gear loads
-	(6,0)	Landing Gear	LGWT	Main gear weight and design summary, always printed
-	(6,0)	Landing Gear	LGWT	Nose gear weight and design summary, always printed

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                                                    ** OLAY00 - IP(40) *'

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT     AUGUST 1973
C 141 TEST CASE


                          **** L A N D I N G   G E A R (OVERLAY 6) ****
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*** LANDING GEAR DATA ***

** LANDGR - IP(59) *

46	TAKE-OFF WEIGHT	318000.01	81	NOSE GEAR LENGTH	41.50
47	LANDING WEIGHT	257500.02	82	NOSE GEAR STROKE	12.00
48	ABORTED TAKE-OFF DELTA WT	0.00	83	NOSE GEAR PISTON DIAMETER	0.00
49	AIRCRAFT CG AT TAKE-OFF	931.21	84	NOSE GEAR ECCENTRICITY	0.00
50	AIRCRAFT CG AT LANDING	933.01	85	NOSE GEAR WHEELS/STRUT	2.00
51	AIRCRAFT CG TO GROUND	154.21	86	STRUT ANGLE (FORE-AFT)	0.00
52	MAIN GEAR FUSELAGE STATION	991.77	87	NOSE GEAR TIRE OD	36.00
53	NOSE GEAR FUSELAGE STATION	354.75	88	NOSE GEAR TIRE WIDTH	11.00
54	DIST BETWEEN STRUTS	210.00	89	TAKE-OFF WEIGHT SINK SPEED	6.00
55	HEAT TREATMENT OF MATERIAL	240000.00	90	LANDING WEIGHT SINK SPEED	10.00
56	POISSONS RATIO	.33	91	TAKE-OFF WT LANDING SPEED	231.83
57	FCY	165000.00	92	LANDING WT LANDING SPEED	208.61
58	MODULUS OF ELASTICITY	30000000.00	93	TAKE-OFF WT LOAD FACTOR	0.00
59	DENSITY OF MATERIAL	.28	94	LANDING WEIGHT LOAD FACTOR	0.00
60	MAIN DEFLECTION INDICATOR	0.00	95	CL AT TAKE-OFF WEIGHT	0.00
61	NOSE DEFLECTION INDICATOR	0.00	96	CL AT LANDING WEIGHT	0.00
62	AUXILIARY GEAR INDICATOR	1.00	97	WING AREA	0.00
63	MAIN GEAR WEIGHT COEFF	1.00	98	WING LIFT COEFFICIENT	1.00
64	NOSE GEAR WEIGHT COEFF	1.00	99	TOTAL LANDING GE R WEIGHT	0.00
65	OUTER CYL WEIGHT COEFF	1.00	100	MAIN GEAR WHEEL WEIGHT	0.00
66	INNER CYL WEIGHT COEFF	1.00	101	MAIN GEAR INERTIA	0.00
67	BOGIE WEIGHT COEFF	1.00	102	MAIN GEAR TIRE WEIGHT	0.00
68	MAIN DRAG STRUT WT COEFF	4.00	103	BRAKE WEIGHT	0.00
69	MAIN SIDE STRUT WT COEFF	0.00	104	MISCELLANEOUS WEIGHT	0.00
70	NOSE DRAG STRUT WT COEFF	4.00	105	NOSE GEAR WHEEL WEIGHT	0.00
71	NOSE SIDE STRUT WT COEFF	0.00	106	NOSE GEAR TIRE WEIGHT	0.00
72	MAIN GEAR LENGTH	61.70	107	MAIN GEAR AL (FORE-AFT)	0.00
73	MAIN GEAR STROKE	28.00	108	MAIN GEAR NL (FORE-AFT)	0.00
74	MAIN GEAR PISTON DIAMETER	0.00	109	MAIN GEAR AL (DRIFT LAND)	0.00
75	MAIN GEAR ECCENTRICITY	0.00	110	MAIN GEAR NL (DRIFT LAND)	0.00
76	MAIN GEAR WHEELS/STRUT	4.00	111	MAIN GEAR AL (TURNING)	0.00
77	STRUT ANGLE (FORE-AFT)	0.00	112	MAIN GEAR NL (TURNING)	0.00
78	STRUT ANGLE (LATERAL)	0.00	113	NOSE GEAR AL (FORE-AFT)	0.00
79	MAIN GEAR TIRES OD	44.00	114	NOSE GEAR NL (FORE-AFT)	0.00
80	MAIN GEAR TIRE WIDTH	16.00	115	NOSE GEAR AL (TURNING)	0.00
			116	NOSE GEAR NL (TURNING)	0.00

	WEIGHT	LOAD FACTOR	LANDING SPEED (FT/SEC)	SINKING SPEED (FT/SEC)
TAKE-OFF	318000.0	1.270	231.8	6.00
LANDING	257500.0	1.749	208.6	10.00

LANDING GEAR LOADS

		MAIN LANDING GEAR		NOSE LANDING GEAR	
		TAKE-OFF	LANDING	TAKE-OFF	LANDING
TWO POINT	AXIAL	64337.	144713.	12233.	26699.
	NORMAL	16084.	36178.	3058.	6675.
SPIN UP	AXIAL	62425.	125776.	12233.	23134.
	NORMAL	48067.	96848.	9419.	17813.
SPRING BACK	AXIAL	64337.	144713.	12233.	26699.
	NORMAL	42917.	86471.	8410.	15905.
BRAKED ROLL	AXIAL	238500.	231750.		
	NORMAL	190800.	185400.		
DRIFT LANDING	AXIAL	32168.	72356.		
	NORMAL	25735.	57885.		
UNSYS. BRAKING	AXIAL	196772.	159832.	87146.	69583.
	NORMAL	157418.	127866.	35575.	28896.
TOWING	AXIAL	215826.		45347.	
	NORMAL	53663.		71550.	
TURNING	AXIAL	391969.		45347.	
	NORMAL	195484.		22674.	

MAIN LANDING GEAR WEIGHTS (POUNDS) ** LGWT **

OUTER CYLINDER	365.5
PISTON	155.9
AXLE	501.6
OIL	241.7
DRAG STRUT	369.1
SIDE STRUT	0.0
WHEELS	1148.1
TIRES	1403.2
MISC (CALC.)	2823.1
BRAKES	751.9
SOCIL	605.2
MISC (INPUT)	0.0
TOTAL	8365.3

MAIN LANDING GEAR DESIGN DATA

		DESIGN LOAD CONDITION **	AREA (SQ IN)	DIAMETER TO THICKNESS RATIO	BENDING MODULUS OF RUPTURE	TORSIONAL MODULUS OF RUPTURE
OUTER CYLINDER	TOP	16	18.08	26.65	279836.	116399.
	MIDDLE	16	12.85	36.29	258496.	107000.
	BOTTOM	2	9.11	50.00	237500.	98514.
PISTON (20 PCT OF LENGTH FROM AXLE)		2	7.52	50.00	237500.	98514.

PISTON DIAMETER (INCHES)	11.05	CC - BELOW TRUNION POINT	54.3
AFT DEFLECTION (INCHES)	7.16	CG - OUTBOARD (INBOARD) FROM TRUNION POINT	0.0
SIDE DEFLECTION (INCHES)	0.0	CG - AFT (FORWARD) FROM TRUNION POINT	0.9
ANGLE OF TWIST (RADIANS)	0.0		

NOSE LANDING GEAR WEIGHTS (POUNDS) ** LGWT **

OUTER CYLINDER	43.3
PISTON	15.9
AXLE	23.2
OIL	18.6
DRAG STRUT	46.5
SIDE STRUT	0.0
WHEELS	142.7
TIRES	174.4
MISC (CALC.)	207.2
TOTAL	674.8

NOSE LANDING GEAR DESIGN DATA

		DESIGN LOAD CONDITION **	AREA (SQ IN)	DIAMETER TO THICKNESS RATIO	BENDING MODULUS OF RUPTURE	TORSIONAL MODULUS OF RUPTURE
OUTER CYLINDER	TOP	14	6.36	28.87	274445.	113965.
	MIDDLE	14	4.35	41.03	250005.	103422.
	BOTTOM	2	3.52	50.00	237500.	98514.
PISTON (20 PCT OF LENGTH FROM AXLE)		2	2.71	50.00	237500.	98514.

PISTON DIAMETER (INCHES)	6.63	CG - BELOW TRUNION POINT	34.9
AFT DEFLECTION (INCHES)	1.76	CG - OUTBOARD (INBOARD) FROM TRUNION POINT	0.0
SIDE DEFLECTION (INCHES)	0.0	CG - AFT (FORWARD) FROM TRUNION POINT	0.9
ANGLE OF TWIST (RADIANS)	0.0		

** DESIGN LOAD CONDITION INDICATORS

	TAKE-OFF WEIGHT	LANDING WEIGHT
TWO POINT	2	18
SPIN UP	4	20
SPIN BACK	6	22
BRAKED ROLL	8	24
LEVEL LANDING	10	26
UNSYMMETRICAL BRAKING	12	28
TOWING	14	
TURNING	16	

(IF THE DESIGN LOAD CONDITION INDICATORS ARE ALL 0, THE DESIGN LOADS MUST GIVEN IN THE INPUT DATA)

OUTPUT TABLES AND CONTROLS

AIR INDUCTION SYSTEM STRUCTURAL WEIGHT ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for air induction system module
61	(7,0)	AIS	AISMN	AIS input data
62	(7,0)	AIS	SPAL	Speed altitude and atmospheric data
63	(7,0)	AIS	MATLP2	Duct material data
63	(7,0)	AIS	MATLP2	Ramp material data*
63	(7,0)	AIS	MATLP2	Nacelle material data
64	(7,0)	AIS	MCNTL1	TMS array, material properties at speed profile points
65	(7,0)	AIS	DSGNP	Speed profile design constants*
66	(7,0)	AIS	PRECRT	Ramp design conditions*
67	(7,0)	AIS	RAMPS	Ramp built-in parameters, input data, reaction forces and ramp weights*
68	(7,0)	AIS	FRMELD	Duct frame data and unit redundants
69	(7,0)	AIS	DUCTS	Duct frame section properties and internal loads
69	(7,0)	AIS	DUCTS	Duct geometry and weight summary

AIR INDUCTION SYSTEM STRUCTURAL WEIGHT ANALYSIS (CONCL)

IP	Overlay	Module	Subroutine	Description
70	(7,0)	AIS	NACELE	Nacelle geometry and weight summary
-	(7,0)	AIS	SUMARY	AIS, engine section or nacelle group weight and CG summary, always printed
-	(7,0)	AIS	SUMARY	AIS weight summary, always printed
-	(7,0)	AIS	SUMARY	Engine section and nacelle group weight summary, always printed

*Not C-141A sample case output (information only).

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                                                    ** OLAY00 - IP(40) **

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT     AUGUST 1973
C 141 TEST CASE

                          **** AIR INDUCTION SYSTEM (OVERLAY 7) ****
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C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE

AIR INDUCTION SYSTEM DATA

NUMBER OF NACELLES	4.0
BYPASS RATIO	1.20
INLET TYPE (1.=FIXED DUCT 2.=FIXED SPIKE) (3.=HORIZ. RAMP 4.=VERT. RAMP) (5.=TRANSL.SPIKE 6.=EXPND.SPIKE)	2.0
CAPTURE AREA PER INLET	1648.00
NUMBER OF INLETS PER AIR VEHICLE	4.0
X DISTANCE OF THROAT FROM L.E. OF COWL OR LIP	6.000
NUMBER OF ENGINES	4.0
THRUST PER ENGINE	21000.00
WEIGHT PER ENGINE	4690.000
LENGTH OF ENGINE	187.000
DIAMETER OF ENGINE	45.000
ENGINE C.G., DISTANCE AFT OF FACE	88.200
X AT COWL OR LIP, SET 1	648.000
Y AT ENGINE FACE, SET 1	285.000
Z AT ENGINE FACE, SET 1	192.710
X AT COWL OR LIP, SET 2	737.000
Y AT ENGINE FACE, SET 2	460.000
Z AT ENGINE FACE, SET 2	185.520
AVERAGE SWEEP OF PYLON	70.00
MOUNTING TYPE (0.=VERT, 1.=HORIZ) IR-PYLON	0.0
AVERAGE CHORD OF INBOARD PYLON	171.00
SPAN OF INBOARD PYLON	40.00
AVERAGE CHORD OF OUTBOARD PYLON	171.00
SPAN OF OUTBOARD PYLON	40.00
PYLON THICKNESS TO CHORD RATIO	.100
AUXILIARY INLET AREA PER NACELLE OR AIR VEHICLE	0.000
DUCT BYPASS AREA PER NACELLE OR AIR VEHICLE	0.000
AREA OF MISCELLANEOUS DOORS	0.000
SHROUD INDICATOR(0.=NO,1.=YES=CALC.GT 1.=SHROUD AREA)	0.000
MATERIAL NUMBER FOR DUCTS	4.0
MATERIAL NUMBER FOR RAMPS	4.0
MATERIAL NUMBER FOR NACELLES	4.0
PRINT CHOICE (1.=MIN.,2.=ADD SPD.PRF., ... 4.=MAX.)	4.0
PITCHING ACCELERATION	1.000
VERTICAL LOAD FACTOR	2.50

K FACTORS...DUCTS= 1.00 FRAMES= 1.00 COVERS= 1.00 LONGERONS= 1.00

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973 ** SPAL - IP(62) **
C 141 TEST CASE

*** SPEED ALTITUDE PROFILE TABLES ***

STANDARD ATMOSPHERE

ALTITUDE FEET	TEMPERATURE DEG RANKINE	DENSITY PCF	PRESSURE PSF	G FT/SEC SQ	SPEED OF SOUND FT/SEC
0.0	518.670	.0765495	2116.22	32.174	1115.90
5000.0	500.839	.0659604	1760.79	32.159	1096.29
10000.0	483.008	.0565301	1455.33	32.144	1076.35
15000.0	465.178	.0481677	1194.27	32.128	1056.04
20000.0	447.347	.0407862	972.49	32.113	1035.36
21250.0	442.889	.0390844	922.63	32.109	1030.13
22500.0	438.431	.0374374	874.85	32.106	1024.87
36250.0	389.970	.0225659	469.04	32.064	965.94
50000.0	389.970	.0116530	242.21	32.022	965.31

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PROFILE TABLE

ALT. FEET	V(M) MN	Q(M) PSF	M2 MN	PT2/PTO	RAM T DEG R	PT2 PSI	P2 PSI	V(L) MN	Q(L) PSF	M2 MN	PT2/PTO	RAM T DEG R	PT2 PSI	P2 PSI
0.0	.57	488.07	.50	1.0000	552.85	18.37	15.49	.60	533.29	.50	1.0000	556.01	18.74	15.80
5000.0	.62	479.57	.50	1.0000	539.81	15.89	13.40	.65	520.53	.50	1.0000	543.14	16.24	13.69
10000.0	.68	471.06	.50	1.0000	527.68	13.77	11.61	.71	507.77	.50	1.0000	531.16	14.09	11.88
15000.0	.74	461.06	.50	1.0000	516.49	11.96	10.08	.77	494.05	.50	1.0000	520.16	12.26	10.34
20000.0	.81	451.06	.50	1.0000	506.63	10.44	8.80	.84	480.33	.50	1.0000	510.48	10.72	9.04
21250.0	.83	446.76	.50	1.0000	504.16	10.08	8.50	.85	471.93	.50	1.0000	507.61	10.33	8.71
22500.0	.85	442.46	.50	1.0000	501.78	9.74	8.21	.87	463.52	.50	1.0000	504.80	9.95	8.39
36250.0	.85	237.22	.50	1.0000	446.32	5.22	4.40	.87	248.51	.50	1.0000	449.00	5.33	4.50
50000.0	.85	122.50	.50	1.0000	446.32	2.70	2.27	.87	128.33	.50	1.0000	449.00	2.75	2.32

*** MATL TEMPERATURE ERROR ***

MATL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 92.8 ASSUMED TEMP. = 80.0

POINT 1 -**-RAMP MATERIAL DATA. MATL NO. 13-**- ** MATLP2 - IP(43) *

6AL-4V TI-A* SHT/PLATE TO .250 IN. REF-TF1.90/1.10 2-22-69
120 HRS AT 290 DEG. MIL-HDBK-5 B DATA

TEMP.= 87.81 DENSITY= .1600 MU= .3304

	A	B	E	E(RT)	G(RT)
COMPRESSION	.16164397E-12	.16943896E-03	16361836.0	16400220.0	6165500.0
TENSION	.16164397E-12	.16943896E-03	16361836.0		

	EPS(P)	EPS(Y)	F(P)	F(2)	F(3)	F(4)	F(Y)
COMPRESSION	.007209	.010383	117958.8	125997.9	131121.5	134634.5	137154.0
TENSION	.007209	.010383	117958.8	125997.9	131121.5	134634.5	137154.0

FTU= 138154.0 FSU= 80577.0 FBRU= 250000.0

TM

1	.87808881E+02	.33039044E+00	.16164397E-12	.16943896E-03	.16361836E+08
6	.13715404E+06	.16164397E-12	.16943896E-03	.16361836E+08	.13715404E+06
11	.16000000E+00	.13815404E+06	.11795882E+06	.16400220E+08	.61655000E+07
16	.80577019E+05	.25000000E+06	.17828665E+00	.70000000E+00	.20924962E+00
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.

TMU

10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

POINT 1 -**-DUCT MATERIAL DATA. MATL NO. 4-**- ** MATLP2 - IP(63) **

7075-T6 AL CLAD SHEET 0.040 TO 0.062 IN. MIL-HDBK-5 B DATA EST.
REF. TABLE 3.2.7.0(C) PAGE 336 8-09-72

TEMP.= 80.00 DENSITY= .1010 MU= .3305

	A	B	E	E(RT)	G(RT)
COMPRESSION	.21026216E-10	.28262543E-03	10500010.5	10700000.0	4022560.0
TENSION	.21026216E-10	.28262543E-03	10500010.5		

	EPS(P)	EPS(Y)	F(P)	F(2)	F(3)	F(4)	F(Y)
COMPRESSION	.003810	.008190	40000.0	51200.0	59000.0	62900.0	65000.0
TENSION	.003810	.008190	40000.0	51200.0	59000.0	2900.0	65000.0

FTU= 73000.0 FSU= 44000.0 FBRU= 139000.0

TM

1	.80000000E+02	.33050000E+00	.21026216E-10	.28262543E-03	.10500011E+08
6	.65000000E+05	.21026216E-10	.28262543E-03	.10500011E+08	.65000000E+05
11	.10100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
16	.44000000E+05	.13900000E+06	.22500000E+00	.76000000E+00	.50000000E+00
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.

TMU

10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

*** MATL TEMPERATURE ERROR ***

MATL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 92.8 ASSUMED TEMP. = 80.0

POINT 1 -**-NACELLE MATERIAL DATA. MATL NO. 4-**- ** MATLP2 - IP(63) *

7075-16 AL CLAD SHEET 0.040 TO 0.062 IN. MIL-HDBK-5 B DATA EST.
REF. TABLE 3.2.7.0(C) PAGE 336 8-09-72

TEMP.= 80.00 DENSITY= .1010 MU= .3305

	A	B	E	E(RT)	G(RT)
COMPRESSION	.21026216E-10	.28262543E-03	10500010.5	10700000.0	4022560.0
TENSION	.21026216E-10	.28262543E-03	10500010.5		

	EPS(P)	EPS(Y)	F(P)	F(2)	F(3)	F(4)	F(Y)
COMPRESSION	.003810	.008190	40000.0	51200.0	59000.0	62900.0	65000.0
TENSION	.003810	.008190	40000.0	51200.0	59000.0	62900.0	65000.0

FTU= 73000.0 FSU= 44000.0 FBRU= 139000.0

TM

1	.80000000E+02	.33050000E+00	.21026216E-10	.28262543E-03	.10500011E+08
6	.65000000E+05	.21026216E-10	.28262543E-03	.10500011E+08	.65000000E+05
11	.10100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
16	.44000000E+05	.13900000E+06	.22500000E+00	.76000000E+00	.50000000E+00
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.

TMD

10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0. 000

*** MATL TEMPERATURE ERROR ***

MATL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 96.0 ASSUMED TEMP. = 80.0

*** MATL TEMPERATURE ERROR ***

MATL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 96.0 ASSUMED TEMP. = 80.0

IMS REGION PROFILE POINT = 1 ** MCNTL1 - IP(64) *

1	.8[illegible]E+02	.33050000E+00	.21026216E-10	.28262543E-03	.10500011E+08
6	.65000000E+05	.21026216E-10	.28262543E-03	.10500011E+08	.65000000E+05
11	.10100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
16	.44000000E+05	.13900000E+06	.22500000E+00	.76000000E+00	.50000000E+00
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.
31	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.
61	.80000000E+02	.33050000E+00	.21026216E-10	.28262543E-03	.10500011E+08
66	.65000000E+05	.21026216E-10	.28262543E-03	.10500011E+08	.65000000E+05
71	.10100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
76	.44000000E+05	.13900000E+06	.22500000E+00	.76000000E+00	.50000000E+00
81	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.
91	.80000000E+02	.33050000E+00	.21026216E-10	.28262543E-03	.10500011E+08
96	.65000000E+05	.21026216E-10	.28262543E-03	.10500011E+08	.65000000E+05
101	.10100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
106	.44000000E+05	.13900000E+06	.22500000E+00	.76000000E+00	.50000000E+00
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
136	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
151	.80000000E+02	.33050000E+00	.21026216E-10	.28262543E-03	.10500011E+08
156	.65000000E+05	.21026216E-10	.28262543E-03	.10500011E+08	.65000000E+05
161	.10100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
166	.44000000E+05	.13900000E+06	.22500000E+00	.76000000E+00	.50000000E+00
171	0.	0.	0.	0.	0.
176	0.	0.	0.	0.	0.

*** MATL TEMPERATURE ERROR ***

MATL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 83.1 ASSUMED TEMP. = 80.0

*** MATL TEMPERATURE ERROR ***

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973 ** (SIGMA = (P/P0) **

C 141 TEST CASE ---NO. 1 ---

SPEED PROFILE DESIGN CONSTANTS

BYPASS RATIO = 1.20 IVG = 2

ALT	VH	TEMP(H) DEG RANKINE	STATIC(H) PRES. RATIO	MACH NUMBER (H) FACE	THROAT
0.0	.57	552.498	.7713	1.5664	1.5147
5000.0	.62	539.213	.7688	1.5764	1.5274
10000.0	.66	527.677	.7660	1.5863	1.5342
15000.0	.74	516.488	.7629	1.5966	1.5411
20000.0	.81	505.629	.7593	1.6069	1.5419
21250.0	.83	504.163	.7584	1.6084	1.5421
22500.0	.85	501.785	.7575	1.6085	1.5424
36250.0	.85	446.321	.7575	1.6447	1.5764
50000.0	.55	446.321	.7575	1.6447	1.5764

ALT	VL	TEMP(L) DEG RANKINE	STATIC(L) PRES. RATIO	MACH NUMBER (L) FACE	THROAT
0.0	.60	556.014	.7700	1.5613	1.5143
5000.0	.65	543.142	.7675	1.5724	1.5227
10000.0	.71	531.159	.7647	1.5838	1.5294
15000.0	.77	520.160	.7616	1.5935	1.5361
20000.0	.84	510.476	.7580	1.6017	1.5356
21250.0	.85	507.615	.7573	1.6041	1.5374
22500.0	.87	504.801	.7565	1.6064	1.5394
36250.0	.87	449.004	.7565	1.6435	1.5739
50000.0	.87	449.004	.7565	1.6435	1.5739

	PRES(H) THROAT-PSIA	PRES(H) ENGINE-PSIA	PRES(L) THROAT-PSIA	PRES(L) ENGINE-PSIA	STATIC PRES THROAT
0.0	27.905	28.736	28.385	29.241	12.164
5000.0	24.277	25.050	24.730	25.565	10.504
10000.0	21.131	21.857	21.556	22.322	9.046
15000.0	18.411	19.092	18.811	19.537	7.872
20000.0	16.093	16.754	16.470	17.171	6.950
21250.0	15.559	16.204	15.878	16.565	6.743
22500.0	15.029	15.676	15.307	15.964	6.565
36250.0	8.237	8.592	8.396	8.764	3.402
50000.0	4.254	4.437	4.336	4.524	1.757

*** RAMP DESIGN CONDITIONS *** ** PRECRT - IP(66) *

POINT	7
ALTITUDE	60000.00
SPEED	3.10
TEMPERATURE - F	681.91
PRESSURE - PSIA	40.06
LIMIT TO ULT. FACTOR	1.20
COMPRESSION YIELD	83947.03
ULTIMATE SHEAR STRESS	56133.08
MATERIAL DENSITY	.160

BUILT-IN PARAMETERS ** RAMPS - IP(67) *

21	CL	.900
22	PERCENT OF COMPRESSION YIELD	.500
23	PERCENT OF SHEAR ULTIMATE	.500
24	XW	.200
25	CT	.900
26	DENSITY OF CORE (PSF)	4.400
27	DENSITY OF ADHESIVE (PSF)	.100

** 3 RAMP SYSTEM **

45	INDEX RAMP 1 LONGITUDINAL	1.000
46	INDEX RAMP 1 TRANSVERSE	1.000
47	INDEX RAMP 1 MINIMUM GAGE	1.000
48	INDEX RAMP 2 LONGITUDINAL	1.000
49	INDEX RAMP 2 TRANSVERSE	1.000
50	INDEX RAMP 2 MINIMUM GAGE	1.000
51	INDEX RAMP 3 LONGITUDINAL	1.000
52	INDEX RAMP 3 FWD HINGE BEAM	1.000
53	INDEX RAMP 3 ACTUATOR BEAM	1.000
54	INDEX RAMP 3 AFT HINGE BEAM	1.000
55	INDEX RAMP 3 MINIMUM GAGE	1.000
56	PERCENT HAMMERSHOCK RAMP 1	.200
57	PERCENT HAMMERSHOCK RAMP 2	.500
58	PERCENT HAMMERSHOCK RAMP 3	.400
59	K31	.900
60	K32	.200
61	K33	.800
62	H31	.100
63	H32	.100
64	H33	.070
65	HT3	.100
66	HTA3	.150
67	ANGLE RAMP 2 - RAMP 3	30.000

** MINIMUM GAGES ** ** RAMPS - IP(47) *

99	ALUMINUM	TC	.040
100	ALUMINUM	TW	.020
101	ALUMINUM	TS	.015
102	ALUMINUM	TBARF	.040
103	ALUMINUM	TBARR	.010
104	TITANINM	TC	.025
105	TITANIUM	TW	.013
106	TITANINM	TS	.010
107	TITANIUM	TBARF	.025
108	TITANINM	TBARR	.010
109	STEEL	TC	.020
110	STEEL	TW	.010
111	STEEL	TS	.010
112	STEEL	TBARF	.020
113	STEEL	TBARR	.010

INPUT DATA

NUMBER OF RAMPS	3.00
CONST IND (0=STND,1=HCOMB)	1.00
HAMMERSHOCK PRESSURE (PSI)	40.06
LENGTH OF RAMP 1 (IN)	128.00
LENGTH OF RAMP 2 (IN)	120.00
LENGTH OF RAMP 3 (IN)	200.00
LENGTH OF RAMP 4 (IN)	0.00
WIDTH OF RAMP 1 (IN)	70.00
WIDTH OF RAMP 2 (IN)	70.00
WIDTH OF RAMP 3 (IN)	70.00
WIDTH OF RAMP 4 (IN)	0.00
FCY (PSI)	83947.03
FSU (PSI)	56133.08
DENSITY OF MATERIAL (LB/CU IN)	.16
MATERIAL (1=AL,2=TI,3=ST)	2.00
LIMIT TO ULTIMATE FACTOR	1.20

CHANGES TO BUILT-IN PARAMETERS

26	DENSITY OF CORE (PSF)	5.200
27	DENSITY OF ADHESIVE (PSF)	.220
104	TITANINM TC	.100
106	TITANINM TS	.013

REACTION FORCES (LHS) ** RAMPS - IP(47) *

RAMP 1 ACTUATOR	133352.
RAMP 3 ACTUATOR	241630.
RAMP 3 FWD HINGE	97138.
RAMP 3 AFT HINGE	59840.

RAMP WEIGHTS (LHS)

RAMP 1 - LONGITUDINAL	416.29
RAMP 1 - TRANSVERSE	15.67
RAMP 2 - LONGITUDINAL	625.20
RAMP 2 - TRANSVERSE	15.69
RAMP 3 - LONGITUDINAL	758.69
RAMP 3 - FORWARD HINGE	20.13
RAMP 3 - ACTUATOR	43.89
RAMP 3 - AFT HINGE	12.40
TOTAL	1707.96

*** DUCT FRAME DATA *** ** FRMELD - IP(68) *

SECTION 1 UNIT REDUNDANTS RMO = -599.426 HO = 23.500 VO = .000
DUCT PERIMETER = 147.092 RING PERIMETER = 159.606

CUT/SEG	Y	Z	YB	ZB	DLS	YP	ZP	YPB	ZPB	DLSP
1	0.000	23.500	3.633	22.928	7.355	0.000	25.500	3.941	24.879	7.979
2	7.265	22.356	10.542	20.688	7.355	7.882	24.259	11.438	22.448	7.981
3	13.820	19.020	16.420	16.420	7.355	14.995	20.638	17.817	17.817	7.981
4	19.020	13.820	20.688	10.542	7.355	20.638	14.995	22.448	11.438	7.981
5	22.356	7.265	22.928	3.633	7.355	24.259	7.882	24.879	3.941	7.979
6	23.500	0.000	22.928	-3.633	7.355	25.500	0.000	24.879	-3.941	7.979
7	22.356	-7.265	20.688	-10.542	7.355	24.259	-7.882	22.448	-11.438	7.981
8	19.020	-13.820	16.420	-16.420	7.355	20.638	-14.995	17.817	-17.817	7.981
9	13.820	-19.020	10.542	-20.688	7.355	14.995	-20.638	11.438	-22.448	7.981
10	7.265	-22.356	3.633	-22.928	7.355	7.882	-24.259	3.941	-24.879	7.979
11	0.000	-23.500	-3.633	-22.928	7.355	0.000	-25.500	-3.941	-24.879	7.979
12	-7.265	-22.356	-10.542	-20.688	7.355	-7.882	-24.259	-11.438	-22.448	7.981
13	-13.820	-19.020	-16.420	-16.420	7.355	-14.995	-20.638	-17.817	-17.817	7.981
14	-19.020	-13.820	-20.688	-10.542	7.355	-20.638	-14.995	-22.448	-11.438	7.981
15	-22.356	-7.265	-22.928	-3.633	7.355	-24.259	-7.882	-24.879	-3.941	7.979
16	-23.500	-0.000	-22.928	3.633	7.355	-25.500	0.000	-24.879	3.941	7.979
17	-22.356	7.265	-20.688	10.542	7.355	-24.259	7.882	- 2.448	11.438	7.981
18	-19.020	13.820	-16.420	16.420	7.355	-20.638	14.995	- 7.817	17.817	7.981
19	-13.820	19.020	-10.542	20.688	7.355	-14.995	20.638	-11.438	22.448	7.981
20	-7.265	22.356	-3.633	22.928	7.355	-7.882	24.259	-3.941	24.879	7.979

** DUCTS - IP(69) **

DUCT FRAME

SECTION 1

K	TWW	TCC	RR2	BFN	VV	AA
1	.3200000E-01	.5000000E-01	.2000000E+01	-.8902379E-01	.2183745E-01	.2321395E+02
2	.3200000E-01	.5000000E-01	.2000000E+01	.4402610E-01	.1150704E-01	.2321924E+02
3	.3200000E-01	.5000000E-01	.2000000E+01	.8994612E-01	-.4300773E-09	.2322107E+02
4	.3200000E-01	.5000000E-01	.2000000E+01	.4402610E-01	-.1150704E-01	.2321924E+02
5	.3200000E-01	.5000000E-01	.2000000E+01	-.8902379E-01	-.2183745E-01	.2321395E+02
6	.3200000E-01	.5000000E-01	.2000000E+01	-.8902379E-01	.2183745E-01	.2321395E+02
7	.3200000E-01	.5000000E-01	.2000000E+01	.4402610E-01	.1150704E-01	.2321924E+02
8	.3200000E-01	.5000000E-01	.2000000E+01	.8994612E-01	.4318963E-09	.2322107E+02
9	.3200000E-01	.5000000E-01	.2000000E+01	.4402610E-01	-.1150704E-01	.2321924E+02
10	.3200000E-01	.5000000E-01	.2000000E+01	-.8902379E-01	-.2183745E-01	.2321395E+02
11	.3200000E-01	.5000000E-01	.2000000E+01	-.8902379E-01	.2183745E-01	.2321395E+02
12	.3200000E-01	.5000000E-01	.2000000E+01	.4402610E-01	.1150704E-01	.2321924E+02
13	.3200000E-01	.5000000E-01	.2000000E+01	.8994612E-01	-.4325216E-09	.2322107E+02
14	.3200000E-01	.5000000E-01	.2000000E+01	.4402610E-01	-.1150704E-01	.2321924E+02
15	.3200000E-01	.5000000E-01	.2000000E+01	-.8902379E-01	-.2183745E-01	.2321395E+02
16	.3200000E-01	.5000000E-01	.2000000E+01	-.8902379E-01	.2183745E-01	.2321395E+02
17	.3200000E-01	.5000000E-01	.2000000E+01	.4402610E-01	.1150704E-01	.2321924E+02
18	.3200000E-01	.5000000E-01	.2000000E+01	.8994612E-01	.4316689E-09	.2322107E+02
19	.3200000E-01	.5000000E-01	.2000000E+01	.4402610E-01	-.1150704E-01	.2321924E+02
20	.3200000E-01	.5000000E-01	.2000000E+01	-.8902379E-01	-.2183745E-01	.2321395E+02

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973 ** DUCTS - IP(69) **
C 141 TEST CASE

*** DUCT GEOMETRY - SECTION DATA ***
LIP TYPE = 0 SHAPE CODE = 1

CUT	STA.	DEPTH	WIDTH	PER.	DO	RO	WO	BU	BL	BS
1	0.00	47.00	47.00	147.70	.03	23.47	.03	36.92	36.92	36.92
2	6.00	50.00	50.00	157.10	.01	24.99	.01	39.27	39.27	39.27
3	12.00	52.50	52.50	165.00	.04	26.21	.04	41.25	41.25	41.25

CUT	STA.	FR.SP.	FR.WT.	LAND	BASIC
1	0.00	11.00	6.48	.0975	.0390
2	6.00	11.00	6.86	.0975	.0390
3	12.00	10.50	7.18	.0983	.0393

SEG	LENGTH	AREA	WT COVER
1	6.00	914.40	4.58
2	6.00	966.30	4.89
TOTAL	12.00	1880.70	9.48

WARNING FROM NACGEO IN AIR INDUCTION SYSTEM
SECTION 1 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGEO IN AIR INDUCTION SYSTEM
SECTION 2 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGEO IN AIR INDUCTION SYSTEM
SECTION 3 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGEO IN AIR INDUCTION SYSTEM
SECTION 4 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGEO IN AIR INDUCTION SYSTEM
SECTION 5 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGEO IN AIR INDUCTION SYSTEM
SECTION 6 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGEO IN AIR INDUCTION SYSTEM
SECTION 7 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGEO IN AIR INDUCTION SYSTEM
SECTION 8 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

WARNING FROM NACGEO IN AIR INDUCTION SYSTEM
SECTION 9 IS RECTANGLE OR ROUNDED RECT.. CORRECTION IS 1.000

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973 ** NACELE - IP(70) **
C 141 TEST CASE

*** NACELLE GEOMETRY - SECTION DATA ***

LIP TYPE = 0 SHAPE CODE = 2

CUT	STA.	DEPTH	WIDTH	PER.	DO	RO	WO	BU	BL	BS	RCU	RCS
1	0.0	48.0	48.0	150.8	0.0	24.0	0.0	37.7	37.7	37.7	24.0	24.0
2	10.0	63.0	63.0	197.9	0.0	31.5	0.0	49.5	49.5	49.5	31.5	31.5
3	20.0	66.0	66.0	207.3	0.0	33.0	0.0	51.8	51.8	51.8	33.0	33.0
4	40.0	66.0	66.0	207.3	0.0	33.0	0.0	51.8	51.8	51.8	33.0	33.0
5	60.0	66.0	66.0	207.3	0.0	33.0	0.0	51.8	51.8	51.8	33.0	33.0
6	120.0	65.5	65.5	205.8	0.0	32.7	0.0	51.4	51.4	51.4	32.7	32.7
7	140.0	65.0	65.0	204.2	0.0	32.5	0.0	51.1	51.1	51.1	32.5	32.5
8	160.0	63.5	63.5	199.5	0.0	31.7	0.0	49.9	49.9	49.9	31.7	31.7
9	180.0	60.0	60.0	188.5	0.0	30.0	0.0	47.1	47.1	47.1	30.0	30.0
10	199.2	54.0	54.0	169.6	0.0	27.0	0.0	42.4	42.4	42.4	27.0	27.0

CUT	STA.	FR.SP.	FR.WT.	COVER
1	0.00	11.00	6.48	.0320
2	10.00	10.67	7.07	.0320
3	20.00	7.00	6.28	.0320
4	40.00	7.00	6.28	.0320
5	60.00	7.00	6.28	.0320
6	120.00	7.00	6.23	.0320
7	140.00	7.00	6.19	.0320
8	160.00	7.00	6.04	.0320
9	180.00	7.00	5.71	.0320
10	199.22	7.00	5.14	.0320

SEG	LENGTH	AREA	WT COVER	WT FR	WT LONGERON
1	10.00	1743.58	5.64	6.26	0.00
2	10.00	2026.33	6.55	7.80	0.00
3	20.00	4146.90	13.40	17.95	0.00
4	20.00	4146.90	13.40	17.95	0.00
5	60.00	12393.58	40.06	53.65	0.00
6	20.00	4099.78	13.25	17.75	0.00
7	20.00	4036.95	13.05	17.47	0.00
8	20.00	3879.87	12.54	16.79	0.00
9	19.22	3441.38	11.12	14.90	0.00
TOTAL	199.22	34915.27	129.01	170.52	0.00

ENGINE SECTION OR NACELLE GROUP

	INBOARD	OUTBOARD	TOTAL
ENGINE MOUNTS	140.70	140.70	
NACELLE STRUCTURE			
BULKHEADS & FRAMES	341.04	341.04	
COVERING & STIFFENERS	258.01	258.01	
LONGERONS	0.0	0.0	
FITTINGS	7.48	7.48	
PYLON	1140.00	1140.00	
FIREWALL	11.23	11.23	
SHROUD	0.0	0.0	
TOTAL	1898.46	1898.46	3796.93
DOORS & MISCELLANEOUS			
DOORS			
ACCESS	0.0		
ENGINE	0.0		
EXTERIOR FINISH	28.83		
TOTAL DOORS & MISCELLANEOUS			28.83
TOTAL ENGINE SECTION OR NACELLE GROUP			3825.76

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973 ** SUMARY **
C 141 TEST CASE ---NO. 1 ---

* * * PROPULSION GROUP * * *

AIR INDUCTION SYSTEM		611.50
INLET WEDGE	0.0	
AIR DUCTING	37.90	
INTAKE DOORS & OPERATING MECHANISM	0.0	
BYPASS DOORS & OPERATING MECHANISM	0.0	
VARIABLE GEOMETRY STRUCTURE	0.0	
HALF ROUND FIXED SPIKE	573.60	

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973 ** SUMARY **
C 141 TEST CASE ---NO. 1 ---

A. I. S. & ENGINE SECTION OR NACELLE GROUP WEIGHT & C.G. SUMMARY

	WT.	C.G.	WT.	C.G.
AIR INDUCTION SYSTEM			611.50	679.91
INLET WEDGE	0.0	2.00		
AIR DUCTING	37.90	660.00		
INTAKE DOORS & OP. MECHANISM	0.0	0.0		
BYPASS DOORS & OP. MECHANISM	0.0	0.0		
VARIABLE GEOMETRY STRUCTURE	0.0	0.0		
HALF ROUND FIXED SPIKE	573.60	679.90		
FULL ROUND TRANSLATING SPIKE	0.0	0.0		
FULL TRANS. & EXPND. SPIKE	0.0	0.0		

	INBOARD		OUTBOARD		TOTAL	
	WT.	C.G.	WT.	C.G.	WT.	C.G.
ENGINE MOUNTS	140.70	728.60	140.70	819.60		
BULKHEADS & FRAMES	341.04	728.21	341.04	819.21		
COVERING & STIFFENERS	258.01	727.03	258.01	818.03		
LONGERONS	0.0	0.0	0.0	0.0		
FITTINGS	7.48	838.50	7.48	929.50		
PYLONS	1140.00	783.55	1140.00	874.55		
FIREWALL	11.23	640.40	11.23	731.40		
SHROUD	0.0	0.0	0.0	0.0		
TOTAL ENG.SEC./NAC.	1898.46	761.22	1898.46	852.22	3796.93	806.72
ACCESS DOORS		0.0	0.0			
ENGINE DOORS		0.0	0.0			
EXTERIOR FINISH		28.83	773.51			
TOTAL MISC.					28.83	773.51
TOTAL ENG.SEC./NAC.GROUP & MISC.					3825.76	806.47

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS

IP	Overlay	Module	Subroutine	Description
40	(0,0)	Executive	OLAY00	Title page for wing and empennage
3	(8,0)	Wing	CCNTL	WD array, D array before data transfer, D array after data transfer and SPAL array
4	(8,0)	Wing	GEOMC	YC, YTC, and TAF arrays*
5	(8,0)	Wing	ABOXC, DMAX	Geometry data for synthesis cuts from YC, YTC, and TAF arrays
5	(8,0)	Wing	DMAX	Geometry summary from YTC and TT arrays
6	(8,0)	Wing	PRTG	Planform geometry parameters, equations and coordinates, blended geometry control points
6	(8,0)	Wing	PRTG	Structural system geometry data
7	(8,0)	Wing	PPTG	TXY array - general geometry data
7	(8,0)	Wing	GEOMW	Flutter geometry data

OUTPUT ABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
8	(14,0)	Wing	CTOT1 (GCNTL)	TT(1), TT(2), and YC arrays*
9	(14,0)	Wing	GCNTL	TG and TGA arrays*
8	(14,0)	Wing	CTOT1 (LEWT)	TT(1), TT(2), and YC arrays-LE data*
11	(14,0)	Wing	LEWT	TGR, TST, CCI and YC arrays-LE device data same format as trailing edge data in subroutine TEWTI*
11	(14,0)	Wing	LEWT	CCW and CCL arays-LE weight and distribution summary
8	(14,0)	Wing	CTOT1 (TEWT)	TT(1), TT(2), and YC arrays-TE data*
8	(14,0)	Wing	CTOT1 (TEDEV)	TT(1), TT(2), and YC arrays-TE data*
8	(14,0)	Wing	CTOT1 (TEWTI)	TT(1), TT(2), and YC arrays-TE data*
11	(14,0)	Wing	TEWTI	TGR, TST, and CCI arrays-TE device data summary
11	(14,0)	Wing	TEWT	CCW, CCT, and TE arrays-TE weight and distribution summary
10	(14,0)	Wing	LETEI	TCS, CLEI, and TWG arrays-LE inertia data summary*

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
10	(14,0)	Wing	LETEI	TCS, CTEI, and TWG arrays-LE/TE inertia data summary*
12	(14,0)	Wing	WLETE	LE and TE weights and load distribution summaries
12	(14,0)	Wing	WLETE	TE device component summary
15	(15,0)	Wing	CTOT2 (MISCNT)	TT(1), TT(2), and YC arrays-Misc contents data*
13	(15,0)	Wing	MISCNT	CCI and TST arrays-Tip data*
13	(15,0)	Wing	MISCNT	CCI and TGR arrays-Conc* item data
13	(15,0)	Wing	PRTM	CCI array*
13	(15,0)	Wing	PRTM	TST, TGR, and TCS arrays-distributed line items*
14	(15,0)	Wing	PRTM	TCS and CCI arrays-final output data*
16	(15,0)	Wing	CDL	TGR and TCS arrays-CDL data*
14	(15,0)	Wing	MISCNT	CMII and TVWT arrays-final output data
15	(15,0)	Wing	CTOT2 (FDIS)	TT(1), TT(2), and YC array

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
16	(15,0)	Wing	TBFWT1	TCS and CCI arrays-fuel/box mass distribution integration data
17	(15,0)	Wing	FDIS	CCI and TST arrays-fuel cell data
17	(15,0)	Wing	FDIS	CCI, TCS, and TST arrays-box mass distribution data
17	(15,0)	Wing	FDIS	TWG and TVWT arrays-fuel cell data
18	(15,0)	Wing	FDIS	Fuel distribution summary and total fuel plus fuel system 1-G loads
19	(16,0)	Wing	MTLPW	Torque box material data
19	(16,0)	Wing	MTLPW	Pivot material data same format as torque box material
20	(16,0)	Wing	ALOAD	Limit design airload shears, bending moments, torsional moments, and load scaling ratios
22	(16,0)	Wing	GJCAL	TVS array-flutter requirement analysis design GJ data
21	(16,0)	Wing	ABDW	Initial deadweight distribution of wing and contents

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
24	(16,0)	Wing	VLOAD1	Initial design load and required GJ
23	(16,0)	Wing	WDDATA	T and CD arrays-design data initial values
20	(18,0)	Wing	ACLOAD	Basic limit airload data & ACL array for advance composite analysis
19	(18,0)	Wing	TEMPC	Advance composite torque box material data
24	(9,0), (18,0)	Wing	DWYBA	Deadweight and Y-bar adjustment data, NODW > 1
24	(9,0)	Wing	DEADW	Deadweight adjustment results, NODW > 1
24	(9,0)	Wing	VLOAD	Design loads and required GJ, NODW > 1
24	(18,0)	Wing	AVLOAD	Advance composite design loads and required GJ, NODW > 1
24	(18,0)	Wing	AVLOAD	Summary of design loads for up to 20 conditions
31,32	(18,0)	Wing	ASTIFF	CD array
31,32	(18,0)	Wing	ACNSTR	DDUC, DDLC, DDIS, DDFS, DDRS, DDSTR arrays

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
27	(9,0)	Wing	PRTA (TBOPT)	Summary-section synthesis data for GW No. 2 and NODW > 1
27	(9,0)	Wing	PRTA (TBOPT)	Panel weight and design load summary, GW No. 2 and NODW > 1
27	(18,0)	Wing	ACPRTA (ATBOPT)	Advance composite summary-section synthesis data for GW No. 2 and NODW > 1
27	(18,0)	Wing	ACPRTA (ATBOPT)	Stiffness summary for flutter and flex load analysis
27	(18,0)	Wing	ACPRTA (ATBOPT)	Panel weights, loads and design Y-bar summary, GW No. 2 and NODW > 1
25	(9,0) (18,0)	Wing	DWYBA	Deadweight and Y-bar adjustment data, NODW = 1
25	(9,0) (18,0)	Wing	DEADW	Deadweight adjustment results, NODW = 1
25	(9,0)	Wing	VLOAD	Design loads and required GJ, NODW = 1
25	(18,0)	Wing	AVLOAD	Advanced composite design loads and required GJ, NODW = 1
25	(18,0)	Wing	AVLOAD	Summary of design loads for up to 20 conditions

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
31	(9,0)	Wing	PRTB (CNSTR)	Detail section synthesis data, DGW No. 2
31	(9,0)	Wing	PRTC (CNSTR)	Detail section weight data, DGW No. 2
31	(18,0)	Wing	PRTB (ACNSTR)	Advance composite detail section synthesis data, DGW No. 2
31	(18,0)	Wing	PRTC (ACNSTR)	Advance composite detail section weight data, DGW No. 2
26	(9,0), (18,0)	Wing	DLPVT	TW array
29	(9,0)	Wing	PRTH (TBOPT)	Pivot and center section analysis data, DGW No. 2, NODW = 1
29	(18,0)	Wing	PRTH (ATBOPT)	Advance composite pivot and center-section analysis data, DGW No. 2, NODW = 1
26	(9,0), (18,0)	Wing	PIVOT	Pivot data
29	(9,0)	Wing	PRTA (TBOPT)	Summary-section synthesis data for GW No. 2 and NODW = 1
29	(9,0)	Wing	PRTA (TBOPT)	Panel weight and design load summary, GW No. 2 and NODW = 1
29	(18,0)	Wing	ACPRTA (ATBOPT)	Advance composite summary-section synthesis data for GW No. 2 and NODW = 1

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
29	(18,0)	Wing	ACPRTA (ATBOPT)	Stiffness summary for flutter and flex load analysis
29	(18,0)	Wing	ACPRTA (ATBOPT)	Panel weights, loads and design Y-bar summary, GW No. 2 and NODW = 1
29	(9,0)	Wing	PRTA (TBOPT)	Section geometry summary
29	(18,0)	Wing	ACPRTA (ATBOPT)	Advance composite section geometry summary
28	(9,0)	Wing	PRTA (TBOPT)	Same output data that is obtained with IP (27) except for GW No. 1 and 3
28	(18,0)	Wing	ACPRTA (ATBOPT)	Advance composite - same output data that is obtained with IP (27) except for GW No. 1 and 3
30	(9,0)	Wing	PRTA (TBOPT)	Same output data that is obtained with IP (29) except for GW No. 1 and 3
30	(18,0)	Wing	ACPRTA (ATBOPT)	Advance composite - same output data that is obtained with IP (29) except for GW No. 1 and 3

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
32	(9,0)	Wing	PRTB (CNSTR)	Same output data that is obtained with IP (31) except for GW's 1 and 3
32	(18,0)	Wing	PRTB (ACNSTR)	Advance composite - same output data that is obtained with IP (31) except for GW No. 1 and 3
33	(10,0)	Wing	PRTBK (STRG)	Detail break print
33	(10,0)	Wing	PRTBK (TSCH)	Detail break print
34	(17,0)	Wing	TBFWI	TCS and CCI arrays-fuel/box structure integration data
33	(17,0)	Wing	WODATA	WCG and CTBW arrays
-	(17,0)	Wing	PRTD	Total Wing detail weight summary, always printed
37	(17,0)	Wing	PRTD	Torque box detail weight summary
37	(17,0)	Wing	PRTD	Torque box less pivot structure weight summary
37	(17,0)	Wing	PRTD	Wing coefficients

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
38	(17,0)	Wing	WODATA	CTBI array - torque box weight distribution summary
38	(17,0)	Wing	WODATA	CLEI array - LE weight distribution summary
38	(17,0)	Wing	WODATA	CTEI array - TE weight distribution summary
38	(17,0)	Wing	WODATA	CMII array - misc structure and contents weight distribution summary
38	(17,0)	Wing	WODATA	CFL1I array - fuel cell 1 weight distribution summary
38	(17,0)	Wing	WODATA	CFL2I array - fuel cell 2 weight distribution summary
38	(17,0)	Wing	WODATA	CCDLI array - external conc mass weight distribution summary
38	(17,0)	Wing	WODATA	CIOY array - inertia data for flex loads, aero system
36	(17,0)	Wing	WODATA	Surface inertia summary
38	(17,0)	Wing	WODATA	Panel inertia summary for flex loads, aero system

OUTPUT TABLES AND CONTROLS

WING AND EMPENNAGE STRUCTURAL WEIGHT ANALYSIS (CONCL)

IP	Overlay	Module	Subroutine	Description
-	(17,0)	Wing	WFLDD	Flexible loads general data summary, printed if D(271) = 1.2
35	(17,0)	Wing	CTOT (WFLDD)	TT(1), TT(2), and YC array
-	(17,0)	Wing	WFLDD	Flexible loads inertia data printed if D(271) = 1,2
35	(17,0)	Wing	CTOT (WVFDD)	TT(1), TT(2), and YC array
34	(17,0)	Wing	WVFDD	TCS and CCDLI arrays - flutter optimization final data
-	(17,0)	Wing	PINTO	Flutter optimization data printed if D(271) = 1,3

*Note C-141A sample case output (information only).

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

**** WING -- METAL DESIGN - (OVERLAYS 8, 14, 15, 16, 9, 10 AND 17) ****

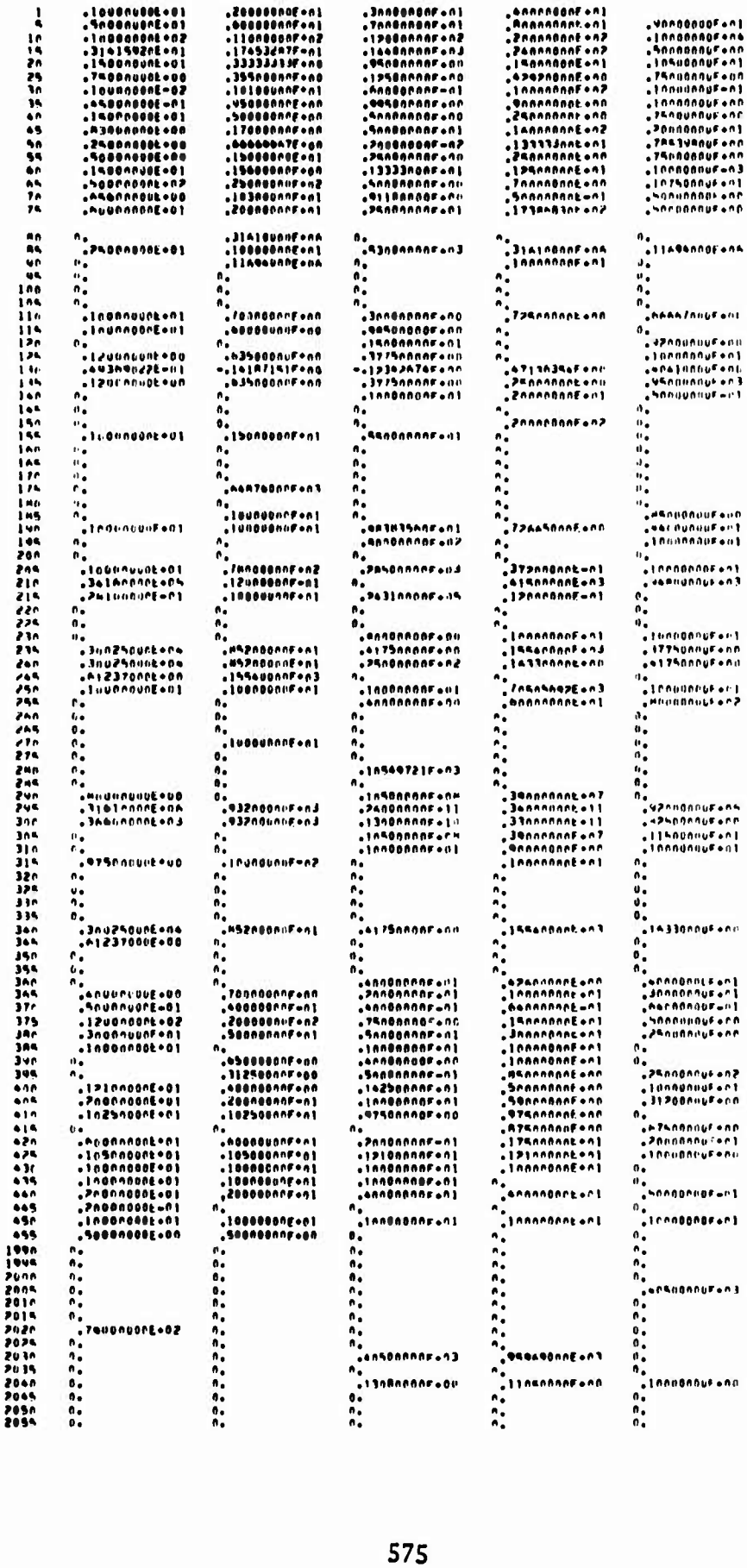
-**-DATA MANAGEMENT TRANSFER DATA--WD ARRAY-**-

** CCNTL - IP(3) *

%0					
1	0.	.31800001E+06	.31510000F+06	.25000000E+01	-.10000000E+01
6	.53328744E+03	.37750000E+00	0.	.50611725E-01	0.
11	0.	0.	0.	.64876000E+03	.30028300E+04
16	.85197500E+01	.28109000E+02	.41746600E+00	.15540000E+03	.30373672E-01
21	.86206283E+03	.56100000E+02	.10000000E+01	.20000000E+01	.77700000E+02
26	.16589880E+03	.25409759E+03	.34229639E+03	.43049519E+03	.51869398E+03
31	.60689278E+03	.69509158E+03	.78329037E+03	.87148917E+03	.93763827E+03
36	.33820000E+05	.32869996E+05	.85800000E+03	.78000000E+02	.32500000E+03
41	.24520000E+05	.24520000F+05	.10473400F+04	.41500000E+03	.94800000E+03
46	.81879913E+04	.28500000F+03	.73708565F+03	-.91200000E+02	.10000000F+01
51	.28934056E+08	0.	.28934056F+08	.81879913E+04	.46000000F+03
56	.82608565E+03	-.98480000E+02	.10000000F+01	.28934056E+08	0.
61	.28934056E+08	0.	0.	0.	0.
66	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.
96	0.	0.	0.	0.	0.
101	0.	0.	.11668000F+06	.19000076E+04	0.
106	.25000000E+01	0.	0.	0.	0.
111	.40000000E+00	0.	.57998116E-02	.17181700E+04	.48300000E+03
116	.52480000E+01	.28984506E+02	.36989700E+00	0.	.44399676E+03
121	0.	.20000000F+01	0.	.30207983E+02	.60415966E+02
126	.96623949E+02	.12083193E+03	.15103992E+03	.18124790E+03	.21145588E+03
131	.24166386E+03	.27187185E+03	.29452783E+03	.40000000E+00	.25000000E+00
136	.68682055E-02	.15448000E+04	.83200000E+03	.24820000E+01	.35000000F+02
141	.60893600E+00	0.	.40186387E+03	0.	.20000000F+01
146	0.	.27265521E+02	.54531042E+02	.81706563E+02	.10906208E+03
151	.13632761E+03	.16359313F+03	.19085865E+03	.21812417E+03	.24538969E+03
156	.26583883E+03	.10000000E+01	.10000000F+01	0.	.28600000E+03
161	.16327400E+00	.61246700F+00	0.	.55866000E+03	.10500000E+00
166	.10000000E+01	0.	.28400000F+03	.13000000E+00	.10000000F+01
171	0.	0.	0.	0.	0.
176	0.	0.	0.	0.	0.
181	0.	0.	0.	0.	0.
186	0.	0.	0.	0.	0.
191	0.	0.	0.	0.	0.
196	0.	0.	0.	0.	0.

```
-**-INITIAL STATUS OF VARIABLE DATA--D ARRAY BEFORE DATA TRANSFER-**-          ** CCNTL - IP(3)

 D
  80    0.                  .31610000E+06       0.                  0.                  0.
  85     .25000000E+01      .10000000E+01        .53000000E+03      .31610000E+06       .11690000E+06
  90    0.                  .11690000E+06       0.                  .10000000E+01       0.
  95    0.                 0.                   0.                 0.                  0.
 100    0.                  0.                  0.                 0.                  0.
 105    0.                  0.                  0.                 0.                  0.
 110     .10000000E+01      .70000000E+00        .30000000E+00      .72500000E+00       .66667000E+00
 115     .10000000E+01      .60000000E+00        .98500000E+00      0.                  0.
 120    0.                  0.                  .19000000E+01      0.                  .92000000E+00
 125     .12000000E+00      .63500000E+00        .37750000E+00      0.                  .10000000E+01
 130     .49369022E-01     -.14187151E+00       -.12367674E+00      .47136354E+00       .66410000E+00
 135     .12000000E+00      .63500000E+00        .37750000E+00      .25000000E+00       .95000000E+03
 140    0.                  0.                  .10000000E+01      .20000000E+01       .50000000E-01
 145    0.                  0.                  0.                 0.                  0.
 150    0.                  0.                  0.                 .20000000E+02       0.
 155     .10000000E+01      .15000000E+01        .55000000E+01      0.                  0.
 160    0.                  0.                  0.                 0.                  0.
 165    0.                  0.                  0.                 0.                  0.
 170    0.                  0.                  0.                 0.                  0.
 175    0.                  .64876000E+03       0.                 0.                  0.
 180    0.                 0.                   0.                 0.                  0.
 185    0.                  .10000000E+01       0.                 0.                  .85000000E+00
 190     .10000000E+01      .10000000E+01        .98838560E+01      .72445000E+00       .64000000E+01
 195    0.                  0.                  0.                 0.                  0.
 200    0.                  0.                  0.                 0.                  0.
 205     .10000000E+01      .78000000E+02        .28500000E+03      .37200000E-01       .10000000E+01
 210     .34160000E+05      .12000000E-01       0.                  .41500000E+03       .94800000E+03
 215     .28100000E-01      .10000000E+01        .24310000E+05      .12000000E-01      0.
 220    0.                  0.                  0.                 0.                  0.
 225    0.                  0.                  0.                 0.                  0.
 230    0.                  0.                   .80000000E+00      .10000000E+01       .10000000E+01
 235     .30025000E+04      .85200000E+01        .41750000E+00      .15540000E+03      0.
 240     .30025000E+04      .85200000E+01        .25000000E+02      .14330000E+00       .41750000E+00
 245     .61237000E+00      .15540000E+03       0.                 0.                  0.
 250     .10000000E+01      .10000000E+01        .10000000E+01      0.                  .10000000E+01
 255    0.                  0.                   .40000000E+00      .60000000E+01       .80000000E+02
 260    0.                  0.                  0.                 0.                  0.
 265    0.                  0.                  0.                 0.                  0.
 270    0.                  .10000000E+01       0.                 0.                  0.
 275    0.                  0.                  0.                 0.                  0.
 280    0.                  0.                  0.                 0.                  0.
 285    0.                  0.                  0.                 0.                  0.
 290     .80000000E+00      0.                   .10500000E+08      .30000000E+07      0.
 295     .31610000E+06      .93200000E+03        .26000000E+11      .34000000E+11       .92000000E+05
 300     .36000000E+03      .93200000E+03        .13000000E+10      .33000000E+11       .82500000E+00
 305    0.                  0.                   .10500000E+08      .30000000E+07       .11500000E+01
 310    0.                  0.                   .10000000E+01      .90000000E+00       .10000000E+01
 315     .97500000E+00      .10000000E-02       0.                 .10000000E+01      0.
 320    0.                  0.                  0.                 0.                  0.
 325    0.                  0.                  0.                 0.                  0.
 330    0.                  0.                  0.                 0.                  0.
 335    0.                  0.                  0.                 0.                  0.
 340     .30025000E+04      .85200000E+01        .41750000E+00      .15540000E+03       .14330000E+00
 345     .61237000E+00      0.                  0.                 0.                  0.
 350    0.                  0.                  0.                 0.                  0.
 355    0.                  0.                  0.                 0.                  0.
 360    0.                  0.                   .40000000E+01      .42000000E+00       .40000000E+01
1280    0.                   .10000000E+01       .10000000E+01      .20000000E+01       .20000000E+01
1820     .10000000E+01      .80000000E+03        .78000000E+02      .95000000E+03       .70000000E+00
1825     .65000000E+00      .66000000E+03        .40000000E+00      .25000000E+00      0.
1830    0.                  0.                  0.                 0.                  0.
1835    0.                  0.                  0.                 0.                  0.
1840    0.                  0.                  0.                 0.                  0.
1845    0.                  0.                  0.                 0.                  0.
1850    0.                  0.                  0.                 0.                  0.
1855     .78080000E+04      .28500000E+03       -.18200000E+00      .83000000E+02       .10000000E+01
1860    0.                  0.                  0.                  .10000000E+03       .70000000E+02
1865     .70000000E+02      .10000000E+01        .78080000E+04      .44000000E+03      -.22200000E+00
1870     .81000000E+02      .10000000E+01       0.                 0.                  0.
1875     .19600000E+03      .70000000E+02        .70000000E+02      .10000000E+01      0.
1880    0.                  0.                  0.                 0.                  0.
1885    0.                  0.                  0.                 0.                  0.
1890    0.                  0.                  0.                 0.                  0.
1895    0.                  0.                  0.                 0.                  0.
1900    0.                  0.                  0.                 0.                   .10000000E+01
1905    0.                  0.                  0.                 0.                  0.
1910    0.                  0.                  0.                 0.                  0.
1915    0.                   .10000000E+01      0.                 0.                  0.
1920    0.                  0.                  0.                 0.                  0.
1925    0.                  0.                  0.                 0.                  0.
1930    0.                  0.                  0.                 0.                  0.
1935    0.                  0.                  0.                 0.                   .75000000E+00
```



SPAL ARRAY. MCU 38

** CCNTL - IP(4) =

SPAL					
1	.3316400FE+04	.1819H832E+04	.11721059E+03	0.	.64557565E+07
6	.6781 3449E+08	.7616747CF+08	.9650000OF+00	.6351917CE+03	.3947 36H5E+07
11	.1492 0006E+06	0.	0.	0.	0.
16	.1150C006E+01	0.	.5000000OE+04	.1000000OF+05	.1500000OE+05
21	.2000000OE+05	.2125000OE+05	.2250000OE+05	.3425000OE+05	.5000000OE+05
26	.6000000OE+00	.6498594HE+00	.7060000OE+00	.76875276E+00	.8400000OE+00
31	.8548224 1E+00	.9700000OE+00	.8700000OE+00	.8700000OE+00	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	.1654 721E+03	.9533664 E+02	.9533664 E+02	.8000000OE+02	0.

YC

1	0.	.9596493E+03	.9596493E+03	.9596493E+03	.9596493E+03
6	.9596493E+03	.9596493E+03	.9596493E+03	.9596493E+03	.9596493E+03
11	.9596493E+03	.9596493E+03	.6487600E+03	.1142537E+04	.1142537E+04
16	.1142537E+04	.1142537E+04	.1142537E+04	.1142537E+04	.1142537E+04
21	.1142537E+04	.1142537E+04	.1142537E+04	.1142537E+04	.5145393E+00
26	.5145393E+00	.5145393E+00	.5145393E+00	.5145393E+00	.5145393E+00
31	.5145393E+00	.5145393E+00	.5145393E+00	.5145393E+00	.5145393E+00
36	.6487600E+03	.6487600E+03	.6487600E+03	.6487600E+03	.6487600E+03
41	.6487600E+03	.6487600E+03	.6487600E+03	.6487600E+03	.6487600E+03
46	.6487600E+03	0.	.4050000E+03	.9596493E+03	.9596493E+03
51	.9596493E+03	.9596493E+03	.9596493E+03	.9596493E+03	.9596493E+03
96	.1192649E+04	.1226817E+04	.1275249E+04	.1275249E+04	.9596900E+03
101	.1192649E+04	.1326908E+03	.3775000E+00	.1326908E+03	.3775000E+00
106	.5009076E+02	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
116	.1633000E+00	.1000000E+00	0.	.9596493E+03	.5190343E+02
121	.1326986E+02	.5190343E+02	.1326986E+02	-.4025801E-01	0.
126	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
136	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.

YTC

1	0.	.4050000E+03	.9596900E+03	.9596493E+03	.9596493E+03
6	.9596493E+03	.9596493E+03	.9596493E+03	.9596493E+03	.9596493E+03
11	.9596493E+03	.9596493E+03	.5190684E+02	.2648746E+02	.1326908E+02
16	.1326986E+02	.1326986E+02	.1326986E+02	.1326986E+02	.1326986E+02
21	.1326986E+02	.1326986E+02	.1326986E+02	.1326986E+02	-.6276381E-01
26	-.2383021E-01	-.4025801E-01	-.4025801E-01	-.4025801E-01	-.4025801E-01
31	-.4025801E-01	-.4025801E-01	-.4025801E-01	-.4025801E-01	-.4025801E-01
36	.5190680E+02	.3613869E+02	.5190343E+02	.5190343E+02	.5190343E+02
41	.5190343E+02	.5190343E+02	.5190343E+02	.5190343E+02	.5190343E+02
46	.5190343E+02	0.	0.	0.	0.
51	0.	-.4025801E-01	.5190343E+02	.1326986E+02	0.
56	0.	0.	0.	0.	0.

SECTION NO. 1 ** ABOXC AND DMAX - IP(5) *

TT(1)	44.962
TT(11)	77.700
TT(12)	803.066
TT(14)	142.718
TT(19)	2.883
TT(20)	6.527

Y(A)	X(A)	C(A)	DMAX	DC/C	D(I)	C(O)	C/CO
106.003	738.990	355.713	45.254	.100	27.915	297.390	.120
103.120	745.517	356.832	45.435	.122	30.983	297.946	.147
100.237	752.045	357.950	45.616	.144	33.702	298.503	.173
97.353	758.572	359.069	45.797	.166	36.115	299.059	.200
94.470	765.099	360.188	45.977	.188	38.252	299.615	.226
91.587	771.627	361.306	46.158	.210	40.135	300.171	.252
88.704	778.154	362.425	46.339	.231	41.782	300.728	.279
85.820	784.682	363.544	46.520	.252	43.204	301.284	.305
82.937	791.209	364.662	46.701	.274	44.415	301.840	.331
80.054	797.737	365.781	46.882	.295	45.424	302.396	.356
77.171	804.264	366.900	47.063	.316	46.239	302.953	.382
74.287	810.792	368.018	47.244	.336	46.870	303.509	.408
71.404	817.319	369.137	47.425	.357	47.323	304.065	.434
68.521	823.847	370.256	47.606	.378	47.605	304.621	.459
65.638	830.374	371.374	47.787	.398	47.724	305.178	.484
62.754	836.902	372.493	47.968	.418	47.686	305.734	.510
59.871	843.429	373.612	48.149	.439	47.497	306.290	.535
56.988	849.957	374.730	48.330	.459	47.163	306.846	.560
54.105	856.484	375.849	48.511	.479	46.691	307.403	.585
51.221	863.012	376.968	48.692	.498	46.086	307.959	.610
48.338	869.539	378.086	48.873	.518	45.354	308.515	.635
77.700	803.066	366.694	47.030	.312	46.104	302.851	.377

K(SEC)= .9026 DAVE= 43.077 DMAX= 47.724

** DMAX (CALLED FROM TBWDC AND GEOMW) - IP(5) *

Y(A)	X(A)	C(A)	DMAX	C/C	D(I)	C(O)	C/CO
77.700	691.066	366.694	47.030	.006	6.984	302.851	.008
77.700	915.066	366.694	47.030	.617	37.621	302.851	.747
77.700	697.907	366.694	47.030	.025	14.048	302.851	.030
77.700	725.082	366.694	47.030	.099	28.430	302.851	.120
77.700	881.050	366.694	47.030	.524	43.342	302.851	.635
185.899	742.433	332.474	41.494	.025	12.395	285.835	.029
185.699	768.422	332.474	41.494	.103	25.962	285.835	.120
185.899	915.626	332.474	41.494	.546	37.254	285.835	.635
254.098	786.960	298.254	35.959	.025	10.741	268.819	.028
254.098	811.741	298.254	35.959	.108	23.044	268.819	.120
254.098	950.203	298.254	35.959	.572	31.098	268.819	.635
342.296	831.488	264.034	30.423	.025	9.087	251.803	.026
342.296	855.101	264.034	30.423	.114	20.059	251.803	.120
342.296	984.780	264.034	30.423	.606	29.878	251.803	.635
430.495	876.138	234.787	25.880	.025	7.730	234.787	.025
430.495	898.441	234.787	25.880	.120	17.472	234.787	.120
430.495	1019.356	234.787	25.880	.635	19.963	234.787	.635
518.694	921.093	217.771	23.778	.025	7.103	217.771	.025
518.694	941.781	217.771	23.778	.120	16.053	217.771	.120
518.694	1053.933	217.771	23.778	.635	18.342	217.771	.635
606.893	966.049	200.755	21.676	.025	6.475	200.755	.025
606.893	985.121	200.755	21.676	.120	14.634	200.755	.120
606.893	1088.510	200.755	21.674	.635	16.720	200.755	.635
695.092	1011.005	183.739	19.575	.025	5.847	183.739	.025
695.092	1028.461	183.739	19.575	.120	13.215	183.739	.120
695.092	1123.086	183.739	19.575	.635	15.090	183.739	.635
783.290	1055.962	166.723	17.673	.025	5.219	166.723	.025
783.290	1071.800	166.723	17.673	.120	11.796	166.723	.120
783.290	1157.663	166.723	17.673	.635	13.478	166.723	.635
871.489	1100.918	149.707	15.371	.025	4.591	149.707	.025
871.489	1115.140	149.707	15.371	.120	10.377	149.707	.120
871.489	1192.239	149.707	15.371	.635	11.857	149.707	.635
937.638	1134.635	136.945	13.795	.025	4.120	136.945	.025
937.638	1147.645	136.945	13.795	.120	9.313	136.945	.120
937.638	1218.172	136.945	13.795	.635	10.641	136.945	.635

CASE NO. 1 C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

*** GEOMETRY DATA - WEIGHT ANALYSIS REFERENCE ***
** PLANFORM GEOMETRY PARAMETERS---SWEEP= 25.00 DEGREES AT .2500 C. **

PANEL	AREA	AR	T.R.	T/C(R)	T/C(T)	SIGMA	C(R)	C(TIP)	SPAN/2	RS/R1
GROSS	3002.500	8.5200	.41750	.16330	.10000	.61237	317.841	132.699	959.649	1040.099
EXPOSED	2667.585	8.0947	.43817	.16105	.10000	.62091	302.851	132.699	881.949	77.700
STRUCT.	2667.585	9.4993	.43817	.17278	.10728	.62091	282.298	123.693	964.155	84.962
P(AERO)	0.000	0.0000	0.00000	0.00000	0.00000	0.00000	0.000	0.000	0.000	0.000
P(STRC)	0.000	0.0000	0.00000	0.00000	0.00000	0.00000	0.000	0.000	0.000	0.000
CL-Y1	334.915	.5007	.95284	.16330	.12825	.78539	317.841	302.851	77.700	84.962
CL-Y11	2961.284	8.2469	.43086	.16330	.10073	.61684	317.841	136.945	937.638	1025.035
Y1-Y11	2626.369	7.8213	.45219	.12825	.10073	.78540	302.851	136.945	859.938	940.073
Y11-R/2	41.216	.3265	.96899	.10073	.10000	.99275	136.945	132.699	22.011	24.063

** PLANFORM EQUATIONS AND COORDINATES. **

ITEM	LE	FS	FA	PS	TE	FS(0)	.25 C	AERO C	STRUC. C
TAN	.514539	.491388	.441709	.392131	.321412	0.000000	.466307	-.192927	-.164501
CXO	648.760	686.901	748.745	850.589	966.401	0.000	728.220	317.841	296.271
SIN	.457526	.441020	.404048	.344986	.304168	0.000000	.422618		
COS	.889196	.897698	.914738	.938813	.951978	0.000000	.906308		
ANGLE	27.228	26.169	23.832	21.407	17.828	0.000	25.000		
EQU X/C		.120000	.377500	.635000					
X-R1/2	688.740	725.082	803.066	881.050	991.590	0.000	764.452		
X-PIVOT	688.740	725.082	803.066	881.050	991.590	0.000	764.452		
X-R/2	1142.537	1158.441	1192.631	1226.801	1275.236	0.000	1175.712		

** T/C* LE* TE CONTROL POINTS. **

POINT	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Y(B.P.)	0.00	405.00	959.69	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65
T/C	.1308	.1105	.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DMAX	51.407	26.487	13.269	13.270	13.270	13.270	13.270	13.270	13.270	13.270	13.270
Y(LE)	0.00	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65
X(LE)	648.76	1142.54	1142.54	1142.54	1142.54	1142.54	1142.54	1142.54	1142.54	1142.54	1142.54
Y(TE)	0.00	405.00	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65	959.65
X(TE)	1045.60	1096.85	1275.24	1275.24	1275.24	1275.24	1275.24	1275.24	1275.24	1275.24	1275.24

CASE NO. 1 C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973 ** PRTG - ID(6) *
C 141 TEST CASE ---NO. 1 ---

*** STRUCTURAL SYSTEM GEOMETRY DATA -- REF SWEEP= 25.00 DEGREES AT .250 C. ***

POINT	YEA(A)	Y(STRUC)	YI/YO	C(AERO)	DMAX	T/C	XFA(A)	Y(FS)	X(FS)	Y(RS)	X(RS)
1	77.700	84.942	0.0000	366.694	47.030	.12825	803.066	106.003	738.990	48.338	849.539
2	165.899	181.362	.1000	332.474	41.494	.12480	842.024	192.612	781.548	138.187	904.742
3	254.098	277.782	.2000	298.254	35.959	.12056	880.982	279.220	824.106	228.035	959.946
4	342.296	374.202	.3000	264.034	30.423	.11522	919.940	365.829	866.665	317.884	975.209
5	430.495	470.621	.4000	234.787	25.880	.11023	958.899	452.437	909.223	407.732	1010.433
6	518.694	567.041	.5000	217.771	23.778	.10919	997.857	539.046	951.782	497.581	1045.656
7	606.893	663.461	.6000	200.755	21.676	.10797	1036.815	625.654	994.340	587.429	1080.879
8	695.092	759.881	.7000	183.739	19.575	.10653	1075.773	712.263	1036.898	677.278	1116.103
9	783.290	856.301	.8000	166.723	17.473	.10480	1114.732	798.872	1079.457	767.126	1151.326
10	871.489	952.720	.9000	149.707	15.371	.10267	1153.690	885.480	1122.015	856.975	1186.549
11	937.638	1025.035	.9750	136.945	13.795	.10073	1182.908	950.437	1153.934	924.361	1212.947

POINT	Y(STRUC)	WIDTH	D(TB)	D(FS)	D(RS)	XA(TR)	K(SEC)	MAX D	DS(TB)	J1(TR)	J2(TR)
1	84.942	142.718	43.077	27.915	45.354	6147.794	.9263	47.724	358.704	42146.536	842993.072
2	181.362	134.699	38.119	25.085	39.174	5134.442	.9300	42.012	333.657	31606.760	632113.520
3	277.782	126.680	33.081	22.202	32.924	4190.696	.9325	36.323	308.486	22771.737	455433.472
4	374.202	118.662	27.944	19.248	26.605	3315.860	.9338	30.626	283.176	15530.850	310661.700
5	470.621	110.643	23.525	17.119	20.381	2602.893	.9310	25.889	258.786	10472.056	209444.112
6	567.041	102.624	21.615	15.725	18.730	2218.193	.9310	23.787	239.703	8210.780	164221.560
7	663.461	94.606	19.704	14.332	17.078	1844.132	.9310	21.684	220.621	6300.376	126000.752
8	759.881	86.587	17.794	12.939	15.426	1540.710	.9310	19.582	201.539	4711.330	94227.659
9	856.301	78.568	15.883	11.545	13.775	1247.926	.9310	17.479	182.456	3414.124	68282.248
10	952.720	70.549	13.973	10.152	12.123	985.782	.9310	15.377	163.374	2379.243	47584.487
11	1025.035	64.535	12.540	9.107	10.885	809.279	.9310	13.800	149.062	1757.478	35149.957

AVE K(SEC)= .9309 T(J)= .100 .200

PANEL	S(TOT)	S(TB)	S(LE)	S(TE)	VOL(TB)	VOL(LE)	VOL(TE)	DELY(A)	DELY(S)	S S(TB)	SVOL(TR)
SUM	1387.051	676.518	157.582	552.951	1470.5682	0.0000	0.0000	0.000	0.000	0.000	0.0000
1	214.149	92.877	21.634	99.638	314.7714	0.0000	0.0000	88.199	96.420	676.518	1470.5682
2	193.187	87.508	20.383	85.297	260.1698	0.0000	0.0000	88.199	96.420	583.641	1155.7968
3	172.226	82.138	19.133	70.955	209.4272	0.0000	0.0000	88.199	96.420	496.134	895.4270
4	152.788	76.769	17.882	58.137	165.1287	0.0000	0.0000	88.199	96.420	413.995	686.1998
5	138.618	71.400	16.631	50.587	134.5046	0.0000	0.0000	88.199	96.420	337.226	521.0711
6	128.194	66.031	15.381	46.783	113.8938	0.0000	0.0000	88.199	96.420	265.826	386.5665
7	117.770	60.662	14.130	42.979	94.9925	0.0000	0.0000	88.199	96.420	199.796	272.6727
8	107.346	55.292	12.879	39.175	77.8008	0.0000	0.0000	88.199	96.420	139.134	177.6802
9	96.922	49.923	11.629	35.370	62.3188	0.0000	0.0000	88.199	96.420	83.842	99.8794
10	65.851	33.919	7.901	24.031	37.5606	0.0000	0.0000	66.149	72.315	33.919	37.5606

TXY							
1	.2867585E+00	.A099654E+01	.4381453E+00	.1410543E+00	.62A90A7E+00	.8819493E+03	.7770000E+0
8	.9596493E+03	.3028505E+03	.1326044E+03	.9409240E+01	.4381653E+00	.1727799E+00	.6209007E+0
15	.9061554E+03	.A094230E+02	.1049A98E+04	.2822974E+03	.1236931E+03	.6487608E+03	.6869A09E+0
22	.7887459E+03	.A505890E+03	.9664A10E+03	.3178410E+03	.29A2709E+03	.5145393E+00	.4913A40E+0
29	.4417093E+00	.3920300E+00	.3216122E+00	-.1929271E+00	-.1045012E+00	.4575263E+00	.4410505E+0
36	.4044481E+00	.3849850E+00	.3061A74E+00	.8A91A1E+00	.8974975E+00	.9147377E+00	.9310192E+0
43	.9510774E+00	-.A596157E-04	.4417093E+00	.7A87A40E+03	-.2263939E+01	.3365212E+04	0.
50	0.	.4843075E+00	.4224A1E+00	.9863074E+00	.72A2202E+03	.7770000E+02	.1498A09E+0
57	.2540476E+03	.3422904E+03	.4304452E+03	.5180940E+03	.80AA92AE+03	.6958016E+03	.7832A06E+0
64	.8714A92E+03	.9376385E+03	.8030A58E+03	.8A92024E+03	.88A9822E+03	.9199405E+03	.9588047E+0
71	.9978504E+03	.1036815E+04	.1075173E+04	.1114792E+04	.1154369E+04	.1182908E+04	.2240A00E+0
78	.1427180E+03	.1364992E+03	.1246A05E+03	.1180017E+03	.1106432E+03	.1026242E+03	.9660541E+0
85	.6658A77E+02	.7856803E+02	.7054029E+02	.6453523E+02	0.	.4307653E+02	.3811032E+0
92	.3308084E+02	.2794380E+02	.2352515E+02	.2161471E+02	.1970427E+02	.1779383E+02	.1588339E+0
99	.1397295E+02	.1254012E+02	0.	.6147704E+04	.5134642E+04	.4190690E+04	.3315A46E+0
106	.2602893E+04	.2218193E+04	.1866132E+04	.1540714E+04	.1247926E+04	.9857816E+03	.8092705E+0
113	.3666902E+03	.3324741E+03	.2982539E+03	.2640338E+03	.2347A86E+03	.2177708E+03	.2007A49E+0
120	.1837396E+03	.1667230E+03	.1497071E+03	.1326941E+03	.4703005E+02	.4149636E+02	.3595A67E+0
127	.3062297E+02	.2587490E+02	.2377A11E+02	.2167631E+02	.1957451E+02	.1747272E+02	.1537092E+0
134	.1374657E+02	0.	.9287473E+02	.8780743E+02	.8213832E+02	.7676912E+02	.7139002E+0
141	.6803072E+02	.6066152E+02	.5529231E+02	.4992311E+02	.3391880E+02	0.	.9639A49E+0
148	.4495735E+06	.3618402E+06	.2853424E+06	.2174240E+06	.1968084E+06	.1641470E+06	.1344198E+0
155	.1074868E+06	.6490476E+05	0.	.1213765E+03	.2005472E+03	.2977165E+03	.3858A17E+0
162	.4704419E+03	.5671957E+03	.6503416E+03	.7384773E+03	.8265993E+03	.9048729E+03	.8038A48E+0
169	.8223572E+03	.8013039E+03	.9002491E+03	.9391925E+03	.978A337E+03	.1017872E+04	.1058A07E+0
176	.1094937E+04	.1133862E+04	.1168A82E+04	.1204A071E+03	.1926116E+03	.2792202E+03	.3658A88E+0
183	.4526373E+03	.5390659E+03	.6256544E+03	.7122043E+03	.7988716E+03	.8854801E+03	.9804A46E+0
190	.6911465E+03	.7349A90E+03	.7815A80E+03	.8281044E+03	.8846648E+03	.9092232E+03	.9517A16E+0
197	.9963400E+03	.1036898E+04	.1079A47E+04	.1122015E+04	.1153934E+04	.6963802E+01	.2791494E+0
204	.2504A081E+02	.2220154E+02	.1924772E+02	.1711870E+02	.1572535E+02	.1433199E+02	.1293A44E+0
211	.1154529E+02	.1015193E+02	.9106917E+01	.9263305E+00	.9209502E+00	.9325629E+00	.9338A43E+0
218	.9309969E+00	.9309702E+00	.9309719E+00	.9309747E+00	.9309769E+00	.9309792E+00	.9309A91E+0
225	0.	0.	0.	0.	0.	0.	0.
232	0.	0.	0.	0.	0.	.4214654E+05	.3160A76E+0
239	.2277174E+05	.1553085E+05	.1047204E+05	.8210780E+04	.6300376E+04	.4711330E+04	.3414190E+0
246	.2379243E+04	.1757478E+04	.2163AA8E+02	.2038393E+02	.1913257E+02	.1788192E+02	.1663197E+0
253	.1538041E+02	.1412996E+02	.1287030E+02	.1142845E+02	.7900744E+01	0.	0.
260	0.	0.	0.	0.	0.	0.	0.
267	0.	.1213765E+03	.2095472E+03	.2977164E+03	.3858A17E+03	.4740419E+03	.5621094E+0
274	.6503416E+03	.7384773E+03	.8265993E+03	.9148072E+03	-.1766547E+02	-.1666402E+02	-.1566258E+0
281	-.1466304E+02	-.1358131E+02	-.1256269E+02	-.1154235E+02	-.1052212E+02	-.9502654E+01	-.8483948E+0
288	.4833A14E+02	.1381A67E+03	.2280152E+03	.3178A37E+03	.4077322E+03	.4975907E+03	.5874903E+0
295	.6772774E+03	.7671203E+03	.8569764E+03	.9268012E+03	.9150654E+03	.8695390E+03	.9047A24E+0
302	.9399A54E+03	.9752041E+03	.1010433E+04	.1044504E+04	.1080A79E+04	.1116103E+04	.1151926E+0
309	.1186544E+04	.1212967E+04	.1242A02E+02	.4531304E+02	.3917400E+02	.3292398E+02	.2668092E+0
316	.2034117E+02	.1872940E+02	.1707A04E+02	.1542847E+02	.1377749E+02	.1212333E+02	.1088A45E+0
323	.9772402E+02	.8201107E+02	.3632254E+02	.3A02509E+02	.2588916E+02	.2378670E+02	.2168A93E+0
330	.1954177E+02	.1747931E+02	.1537A85E+02	.1398000E+02	0.	0.	0.
337	0.	0.	0.	0.	0.	0.	0.
344	0.	0.	.8429307E+05	.6371342E+05	.4554347E+05	.3106170E+05	.2094411E+0
351	.1842150E+05	.1260079E+05	.9422A59E+04	.6A2824AE+04	.4798487E+04	.3514057E+04	.2943A08E+0
358	.2529857E+02	.7095506E+02	.5A13A56E+02	.5A54077E+02	.4078269E+02	.4297802E+02	.3917495E+0
365	.3537A47E+02	.2A03143E+02	0.	0.	0.	0.	0.
372	0.	0.	0.	0.	0.	.1207415E+03	.2087A24E+0
379	.2967114E+03	.3849678E+03	.4740419E+03	.5421967E+03	.6503416E+03	.7384773E+03	.8265993E+0
386	.9049729E+03	-.A1A7A75E+02	-.6979A8AE+02	-.5812049E+02	-.4764A836E+02	-.4131534E+02	-.3821142E+0
393	-.3510797E+02	-.3200479E+02	-.2890220AE+02	-.2617A30E+02	0.	0.	0.
400	0.	0.	0.	0.	0.	0.	0.
407	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.
421	.6HH7347E+03	.7250A18E+03	.8030A5HE+03	.8A1049AE+03	.9915902E+03	.6887397E+03	.7250918E+0
428	.8030A5AE+03	.8A104AAE+03	.9915902E+03	.1142537E+04	.1154A61E+04	.1192631E+04	.1226A01E+0
435	.1275523AE+04	.1175712E+04	0.	0.	0.	0.	0.
442	0.	0.	0.	0.	0.	0.	0.
449	0.	0.	.1633000F+00	.1000000E+00	0.	.9594693E+03	.5190343E+0
456	.1324A94E+02	.5190343E+02	.1320A90E+02	-.4025801E-01	0.	0.	0.
463	0.	0.	.4323A00F+06	.1919209E+04	.4AA3322E+00	.1417500E+01	.2500A00E+0
470	.7282202E+03	.48A3075E+00	.4226A1F+00	.9AA3107E+00	.1175712E+04	0.	0.
477	0.	0.	0.	0.	0.	0.	0.
484	0.	0.	0.	0.	0.	0.	.8494218E+0
491	.1H13621E+03	.2777A19E+03	.3742017E+03	.4706214E+03	.5670412F+03	.6634610E+03	.7598A07E+0
498	.8563005E+03	.9527203E+03	.1025A35E+04	.1144342E+02	.4908497E+02	-.8216708E+01	-.2499249E+0

GEOMW SUBR. FLUTTER GEOMETRY DATA ** GEOMW - IP(7) **

TGJ

1	.30025000E+04	.95200000E+01	.41750000E+00	.25000000E+02	.16330000E+00
6	.61237000E+00	.15540000E+03	.10490974E+04	.48194031E+03	.96415540E+03
11	.77700000E+02	.30285054E+03	.44321745E+02	.43916533E+00	.16105431E+00
16	.62090470E+00	.93213572E+00	.47124880E+00	.40404814E+00	.91473772E+00
21	.12000000E+00	.63500000E+00	.37750000E+00	.90869084E+00	.42261814E+00
26	.90630785E+00	.96415540E+03	.86773563E+03	.77131587E+03	.67489610E+03
31	.57447634E+03	.48205657E+03	.38563680E+03	.28821704E+03	.19279727E+03
36	.96377507E+02	.24062683E+02	.14271795E+03	.13469021E+03	.12668047E+03
41	.11866173E+03	.11064299E+03	.10262425E+03	.94605508E+02	.86586767E+02
46	.78568027E+02	.70549286E+02	.64535230E+02	.44321745E+02	.41095249E+02
51	.37868754E+02	.34642258E+02	.31415763E+02	.28189267E+02	.24962772E+02
56	.21736276E+02	.18509780E+02	.15283285E+02	.12963413E+02	.30285054E+03
61	.28583460E+03	.26881866E+03	.25180272E+03	.23478678E+03	.21777084E+03
66	.20075491E+03	.18373897E+03	.16672303E+03	.14970709E+03	.13694513E+03
71	.10000000E+01	.70505692E+03	.10000000E+01	.80000000E+02	.10000000E+01
76	.90000000E+00	.97500000E+00	.84942381E+02	.18136215E+03	.27778191E+03
81	.37420168E+03	.47062144E+03	.56704121E+03	.66346097E+03	.75988074E+03
86	.85630051E+03	.95272027E+03	.10250351E+04	.77700000E+02	.16589880E+03
91	.25409759E+03	.34229639E+03	.43049519E+03	.51869398E+03	.60689278E+03
96	.69509158E+03	.78329037E+03	.87148917E+03	.93763827E+03	0.
101	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	.43076527E+02	0.	0.
166	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.
176	0.	0.	0.	0.	0.
181	0.	0.	0.	0.	0.
186	0.	0.	0.	0.	0.
191	0.	0.	0.	0.	0.
196	0.	0.	0.	0.	0.

TT

1	.95964931E+03	.31784098E+03	.13269861E+03	-.10292711E+00	.10292711E+00
6	.71305489E-01	.51903431E+02	.13269864E+02	.48775384E+02	.47164173E+02
11	.12058203E+02	-.36582081E-01	.61477938E+04	.14271795E+03	.43076527E+02

** CTOT1 (CALLED FROM GCNTL) - ID(4) *

TT(1) = 77.700 TT(2) = 863.066

YC					
1	.68873970E+03	.68873970E+03	.72508177E+03	.80306578E+03	.88104979E+03
6	.99159024E+03	.10554339E+04	.36669424E+03	.30285054E+03	.15596803E+03
11	.11884711E+03	.11884711E+03	.10600306E+03	.77700000E+02	.48338141E+02
16	.47852041E+01	-.27872042E+02	.70991150E+03	.70991150E+03	.73898955E+03
21	.80306578E+03	.86953905E+03	.96813996E+03	.10420738E+04	.36312294E+03
26	.28229781E+03	.14271795E+03	.97897333E+03	-.23904829E+01	.47030052E+02
31	.12825413E+00	.51453927E+00	.51453927E+00	.51453927E+00	.51453927E+00

TT(1) = 165.899 TT(2) = 842.024

YC					
1	.73412145E+03	.73412145E+03	.76842160E+03	.84202401E+03	.91562642E+03
6	.10199560E+04	.10665955E+04	.33247409E+03	.28583460E+03	.14720482E+03
11	.20473402E+03	.20473402E+03	.19201163E+03	.16589880E+03	.13818666E+03
16	.97080786E+02	.71954795E+02	.75410369E+03	.75410369E+03	.78154796E+03
21	.84202401E+03	.90476241E+03	.99782334E+03	.10547069E+04	.32862228E+03
26	.26643664E+03	.13469921E+03	.12176077E+04	-.23904829E+01	.41494359E+02
31	.12480479E+00	.51453927E+00	.51453927E+00	.51453927E+00	.51453927E+00

TT(1) = 254.098 TT(2) = 880.982

YC					
1	.77950319E+03	.77950319E+03	.81176143E+03	.88098223E+03	.95020304E+03
6	.10483219E+04	.10777571E+04	.29425395E+03	.26881866E+03	.13844161E+03
11	.29062092E+03	.29062092E+03	.27922019E+03	.25409759E+03	.22803518E+03
16	.18937637E+03	.17178163E+03	.79829588E+03	.79829588E+03	.82410637E+03
21	.88098223E+03	.93998578E+03	.10275067E+04	.10673400E+04	.29412162E+03
26	.25057548E+03	.12668047E+03	.14562420E+04	-.23904829E+01	.35958667E+02
31	.12056393E+00	.51453927E+00	.51453927E+00	.51453927E+00	.51453927E+00

TT(1) = 342.298 TT(2) = 919.940

YC					
1	.82488493E+03	.82488493E+03	.85510126E+03	.91994046E+03	.98477966E+03
6	.10766877E+04	.10889187E+04	.26403380E+03	.25180272E+03	.12967940E+03
11	.37650783E+03	.37650783E+03	.36582875E+03	.34229639E+03	.31788370E+03
16	.28167195E+03	.27160847E+03	.84248806E+03	.84248806E+03	.86666476E+03
21	.91994046E+03	.97520914E+03	.10571901E+04	.10799731E+04	.25962045E+03

TG

1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
61	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
66	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
81	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
86	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
91	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
96	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
101	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
106	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
111	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
116	0.	[illegible]	[illegible]	[illegible]	[illegible]
121	[illegible]	[illegible]	[illegible]	0.	[illegible]
126	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
131	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
136	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
141	0.	[illegible]	[illegible]	[illegible]	[illegible]
146	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
151	[illegible]	[illegible]	[illegible]	0.	[illegible]
156	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
161	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
166	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
171	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
176	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
181	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
186	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
191	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
196	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
201	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
206	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
211	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
216	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
221	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
226	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
231	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
236	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
241	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
246	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
251	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
256	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
261	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
266	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
271	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
276	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
281	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
286	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
291	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
296	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TGA

1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
41	[illegible]	[illegible]	0.	0.	0.
46	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.
61	0.	0.	0.	0.	0.
66	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.
96	0.	0.	0.	0.	0.
101	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.

** CTOT1 (CALLED FROM LEW1) - TP(8) **

TT(1) = 507.669 TT(2) = 0.000

YC					
1	.90997570E+03	.90997570E+03	.93636344E+03	.99298714E+03	.10496108E+04
6	.11298735E+04	.11298735E+04	.21989784E+03	.21989784E+03	.11324739E+03
11	.95624446E+03	.95624446E+03	.95043655E+03	.93763827E+03	.92436121E+03
16	.90466713E+03	.90466713E+03	.11407853E+04	.11407853E+04	.11539340E+04
21	.11829085E+04	.12129669E+04	.12575529E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.64535230E+02	.33056582E+04	-.25855447E+01	.24040830E+02
31	.10932727E+00	.51453927E+00	.51453927E+00	.51453927E+00	.51453927E+00

TT(1) = 121.375 TT(2) = 0.000

YC					
1	.71121195E+03	.71121195E+03	.74654289E+03	.82235721E+03	.89817153E+03
6	.10056365E+04	.10609510E+04	.34974902E+03	.29442454E+03	.15162964E+03
11	.95624446E+03	.95624446E+03	.95043655E+03	.93763827E+03	.92436121E+03
16	.90466713E+03	.90466713E+03	.11407853E+04	.11407853E+04	.11539340E+04
21	.11829085E+04	.12129669E+04	.12575529E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.64535230E+02	.33056582E+04	-.25855447E+01	.44288874E+02
31	.12663044E+00	.51453927E+00	.51453927E+00	.51453927E+00	.51453927E+00

TT(1) = 209.547 TT(2) = 0.000

YC					
1	.75658028E+03	.75658028E+03	.78986991E+03	.86130392E+03	.93273793E+03
6	.10339939E+04	.10721193E+04	.31553899E+03	.27741363E+03	.14286802E+03
11	.95624446E+03	.95624446E+03	.95043655E+03	.93763827E+03	.92436121E+03
16	.90466713E+03	.90466713E+03	.11407853E+04	.11407853E+04	.11539340E+04
21	.11829085E+04	.12129669E+04	.12575529E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.64535230E+02	.33056582E+04	-.25855447E+01	.38754818E+02
31	.12282101E+00	.51453927E+00	.51453927E+00	.51453927E+00	.51453927E+00

TT(1) = 297.717 TT(2) = 0.000

YC					
1	.80194685E+03	.80194685E+03	.83319526E+03	.90024913E+03	.96730300E+03
6	.10623502E+04	.10832771E+04	.28133028E+03	.26040338E+03	.13410774E+03
11	.95624446E+03	.95624446E+03	.95043655E+03	.93763827E+03	.92436121E+03
16	.90466713E+03	.90466713E+03	.11407853E+04	.11407853E+04	.11539340E+04
21	.11829085E+04	.12129669E+04	.12575529E+04	.12575529E+04	.12765145E+03

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***LE-1 SUBR. LE DEVICE SUMMARY DATA ARRAYS--IOR, IST, CCI***                    ** LENT = IP(11) **

  *LE DEVICE 1  TYPE 1*

IWG
  1     .1[illegible]E+01     .102H0531E+03     .33982737E+03     .39909231E+00     .20233305E+00
  6     .234[illegible]E-01     .11805210E-01     .3858n2a7E-02     .3858n2a7E-02     .30864198E-01
 11     .30[illegible]E-01     .8359n535E-02     .8359n535E-02     .2947n1a8E+03     .39600020E+03
 16     .5[illegible]E+00     .21000007E+01     .21000007E+01     0.                0.
 21     0.                0.                0.                0.                0.
 26     0.                0.                0.                0.                0.
 31     0.                0.                0.                0.                0.
 36     0.                .4419H627E+00     0.                .8359A855E+00     .14556712E+01
 41     .7[illegible]E+00     .3755654F+00     .33533333E+00     0.                0.
 46     0.                0.                0.                0.                0.
 51     .10000000E+01     .20000000E+01     .65000000E+02     .15000000E+03     .10000000E+00
 56     .1400C000E+00     .25000000E+01     .25000000E+01     0.                .10000000E+01
 61     .10000000E+01     .14500000E+00     .10000000E+01     .35100000E+00     .32000000E+00
 66     .10000000E+01     .80000000E+00     .25000000E+00     .10000000E+00     .25000000E+00
 71     .10000000E+00     .10000000E-01     .10000000E+01     .12500000E+00     .10000000E+01
 76     .1010000nE+01     .1110700E+03      .11294365E+01     0.                0.
 81     0.                0.                0.                0.                0.
 86     0.                0.                0.                0.                0.
 91     0.                0.                0.                0.                0.
 96     0.                0.                0.                0.                0.

IST
  1     .65n[illegible]E+02     .15000000E+03     .2947n128E+03     .3940n028E+03     .31015640E+03
  6     .406H7770E+03     .21455202E+02     .10A77425E+02     .95424146E+01     .12431951E+03
 11     -.12[illegible]E+00     .2954404[illegible]E+02     .62159754E+02     .5551178A2E+01     .39900296E+01
 16     0.                .5404493[illegible]E+02     .17738792E+02     0.                .97360031E+01
 21     .9456478[illegible]E+01     0.                .45000000E+02     .10750000E+03     .15000000E+03
 26     0.                .21455202E+02     .10184314E+02     .10A774[illegible]5E+02     0.
 31     .M525421[illegible]E+02     .12730473E+03     0.                .32595014E+03     .37416700E+03
 36     0.                .85000003E+02     .75349154E+00     .072845A9E+00     0.
 41     .37[illegible]5H5E+00     .1450000JE+00     .38312862E+01     .19423973E+01     -.22222222E-01
 46     .5275730AE+01     .9818294H5E+01     .91783727E+02     .94141494E+04     .31736581E+05

CCI
  1     .33H1A35[illegible]E+02     .51402563E+01     .4749A9A0E+01     .43587J47E+01     .39679755E+01
  6     .35772192E+01     .31064549E+01     .2795A94AE+01     .24049346E+01     .20141741E+01
 11     .1023613AE+01     -.2314A14AE-02     -.2314A14AE-02     -.2314A14AE-02     -.23148148E-02
 16     -.2314A14AE-02     -.2314A14AE-02     -.2314A14AE-02     -.2314A14AE-02     -.23148148E-02
 21     -.2314A14AE-02     .54955527E+00     .54955527E+00     .54955527E+00     .54955527E+00
 26     .54955527E+00     .54955527E+00     .54955527E+00     .54955527E+00     .54955527E+00
 31     .54955527E+00     .40000000E+01     .40000000E+01     .40000000E+01     .40000000E+01
 36     .40000000E+01     .40000000E+01     .40000000E+01     .40000000E+01     .40000000E+01
 41     .40000001E+01     .2887425[illegible]E+03     .30422652E+03     .31971052E+03     .33519453E+03
 46     .35067853E+03     .3681025[illegible]E+03     .38146654E+03     .39711055E+03     .41201455E+03
 51     .42750856E+03     .44350256E+03     .31239690E+03     .32614055E+03     .33990020E+03
 56     .35365918AE+03     .3874035[illegible]E+03     .38115517E+03     .39490A82E+03     .40865848E+03
 61     .42241013E+03     .4361017AE+03     .44991344E+03     .917A37p7E+02     0.
 66     0.                0.                0.                0.                .98182986E+01
 71     0.                0.                0.                0.                0.
 76     .45626196E+01     0.                0.                0.                0.
 81     0.                .65000000E+02     0.                0.                0.
 86     0.                0.                .15000000E+03     0.                0.
 91     0.                0.                0.                .10256803E+03     0.
 96     0.                0.                0.                0.                .34577569E+03
101     0.                0.                0.                0.                0.
106     -.MM43H2A7E-02     0.                0.                0.                0.
111     0.                .20305194E+01     0.                0.                0.
116     0.                0.                .14500000E+00     0.                0.
121     0.                0.                0.                .11017529E+01     0.
126     0.                0.                0.                0.                .21723734E+03
131     0.                0.                0.                0.                0.
136     .10673u885E+01     0.                0.                0.                0.
141     0.                .2487814[illegible]E+03     0.                0.                0.
146     0.                0.                .1498922AE+01     0.                0.
151     0.                0.                0.                .879629A3E+00     0.
156     0.                0.                0.                0.                .17040385E+01
161     0.                0.                0.                0.                0.
166     .102H0531E+03     0.                0.                0.                0.
171     0.                .33982737E+03     0.                0.                0.
176     0.                0.                -.1357e531E-03     0.                0.
181     0.                0.                0.                .3222704n7E-01     0.
186     0.                0.                0.                0.                .21666667E+01
191     0.                0.                0.                0.                0.
196     .11917529E+01     0.                0.                0.                0.
201     0.                .21723734E+03     0.                0.                0.
206     0.                0.                .11495307E+01     0.                0.
211     0.                0.                0.                .2225137n7E+03     0.
216     0.                0.                0.                0.                0.
221     0.                0.                0.                0.                0.
226     0.                0.                0.                0.                0.
231     0.                0.                0.                0.                0.
236     0.                0.                0.                0.                0.
241     0.                0.                0.                0.                0.
246     0.                0.                0.                0.                0.
251     0.                0.                0.                0.                0.
256     0.                0.                0.                0.                0.
261     0.                0.                0.                0.                0.
266     0.                0.                0.                0.                0.
271     0.                0.                0.                0.                0.
276     0.                0.                0.                0.                0.
281     0.                0.                0.                0.                0.
286     0.                0.                0.                0.                0.
291     0.                0.                0.                0.                0.
296     0.                .17361111E-01     .6296294[illegible]3E+00     .80000000E+01     .14092A10E+02
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***LENT SUMM.  LE WEIGHT AND DISTRIBUTION SUMMARY ARRAYS--CCM, CCL***                    ** LENT = IP(11) *

CCM
  1     .69987670E+03     0.                .69987670E+03     0.                0.
  6     0.                0.                0.                .44413494E+01     0.
 11     .44413454E+01     0.                0.                0.                0.
 16     0.                .15758214E+03     0.                .15758214E+03     0.
 21     0.                0.                0.                0.                .15758214E+03
 26     0.                .45360294E+03     .89955915E+03     0.                0.
 31     .45360296E+03     .89955915E+03     0.                0.                0.
 36     0.                0.                0.                0.                0.
 41     0.                0.                0.                0.                0
 46     0.                0.                0.                0.                0.

CCL
  1     .69987670E+03     .90983550E+02     .90528962E+02     .84974374E+02     .79619785E+02
  6     .73865197E+02     .6831080AE+02     .62756020E+02     .57201492E+02     .51646843E+02
 11     .35u899J4E+02    -.71404662E-03    -.71404662E-03    -.71404662E-03    -.71404662E-03
 16    -.71404662E-03    -.71404662E-03    -.71404662E-03    -.71404662E-03    -.71404662E-03
 21    -.71404662E-03     .11763680E+01     .11763680E+01     .11763680E+01     .11763680E+01
 26     .11763680E+01     .11763680E+01     .11763680E+01     .11763680E+01     .11763680E+01
 31     .11763680E+01     .80000000E+01     .80000000E+01     .80000000E+01     .80000000E+01
 36     .80000000E+01     .80000000E+01     .80000000E+01     .80000000E+01     .80000000E+01
 41     .80000000E+01     .6HH73970E+03     .73412145E+03     .77950319E+03     .82488493E+03
 46     .8702666AE+03     .91564842E+03     .96103017E+03     .10064119E+04     .10517937E+04
 51     .10971754E+04     .11312117E+04     .72508177E+03     .76842160E+03     .81176143E+03
 56     .85510126E+03     .89844104E+03     .9417808ZE+03     .98512076E+03      10284606E+04
 61     .1071AU04E+04     .11151402E+04     .11476451E+04     0.                0.
 66     0.                0.                0.                0.                0.
 71     0.                0.                0.                0.                0.
 76     0.                0.                0.                0.                0.
 81     0.                0.                0.                0.                0.
 86     0.                0.                0.                0.                0.
 91     0.                0.                0.                0.                0.
 96     0.                0.                0.                0.                0.
101     0.                0.                0.                0.                0.
106     0.                0.                0.                0.                0.
111     0.                0.                0.                0.                0.
116     0.                0.                0.                0.                0.
121     0.                0.                0.                0.                0.
126     0.                0.                0.                0.                0.
131     0.                0.                0.                0.                0.
136     0.                0.                0.                0.                0
141     0.                0.                0.                0.                0
146     0.                0.                0.                0.                0.
151     0.                0.                0.                0.                0.
156     0.                0.                0.                0.                0.
161     0.                0.                0.                0.                0.
166     0.                0.                0.                0.                0.
171     0.                0.                0.                0.                0.
176     0.                0.                0.                0.                0.
181     0.                0.                0.                0.                0.
186     0.                0.                0.                0.                0.
191     0.                0.                0.                0.                0.
196     0.                0.                0.                0.                0.
201     0.                0.                0.                0.                0.
206     0.                0.                0.                0.                0.
211     0.                0.                0.                0.                0.
216     0.                0.                0.                0.                0.
221     0.                0.                0.                0.                0.
226     0.                0.                0.                0.                0.
231     0.                0.                0.                0.                0.
236     0.                0.                0.                0.                0.
241     0.                0.                0.                0.                0.
246     0.                0.                0.                0.                0.
251     0.                0.                0.                0.                0.
256     0.                0.                0.                0.                0.
261     0.                0.                0.                0.                0.
266     0.                0.                0.                0.                0.
271     0.                0.                0.                0.                0.
276     0.                0.                0.                0.                0.
281     0.                0.                0.                0.                0.
286     0.                0.                0.                0.                0.
291     0.                .20000000E+02     .40000000E+01     .20000000E+02     .40000000E+01
296     .15977953E+01     .30M42677E-01     .62962963E+00     .80000000E+01     .2638774UE+02
```

TT(1) = 507.[illegible] TT(2) = 0.000

YC					
1	.[illegible]9975[illegible]E+03	.[illegible]9447[illegible]E+03	.93536344E+03	.99295714E+03	.[illegible]4961[illegible]E+04
6	.11294735E+04	.11294735E+04	.21989784E+03	.21989784E+03	.11324739E+03
11	.95624446E+03	.95624446E+03	.95043655E+03	.93763827E+03	.92436121E+03
16	.90466713E+03	.90466713E+03	.11407853E+04	.11407853E+04	.11539340E+04
21	.11829085E+04	.12129669E+04	.12575529E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.64535230E+02	.33056582E+04	-.25855447E+01	.24040830E+02
31	.10932727E+00	.51453927E+00	.51453927E+00	.51453927E+00	.51453927E+00

TT(1) = 120.741 TT(2) = 0.000

YC					
1	.71088623E+03	.71088623E+03	.74523183E+03	.82207760E+03	.89792337E+03
6	.10054329E+04	.10608809E+04	.34999463E+03	.29454647E+03	.15169154E+03
11	.95624446E+03	.95624446E+03	.95043655E+03	.93763827E+03	.92436121E+03
16	.90466713E+03	.90466713E+03	.11407853E+04	.11407853E+04	.11539340E+04
21	.11829085E+04	.12129669E+04	.12575529E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.64535230E+02	.33056582E+04	-.25855447E+01	.44328604E+02
31	.12665510E+00	.51453927E+00	.51453927E+00	.51453927E+00	.51453927E+00

TT(1) = 208.762 TT(2) = 0.000

YC					
1	.75617645E+03	.75617645E+03	.78948426E+03	.86095726E+03	.93243026E+03
6	.10337415E+04	.10720194E+04	.31584349E+03	.27756505E+03	.14294600E+03
11	.95624446E+03	.95624446E+03	.95043655E+03	.93763827E+03	.92436121E+03
16	.90466713E+03	.90466713E+03	.11407853E+04	.11407853E+04	.11539340E+04
21	.11829085E+04	.12129669E+04	.12575529E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.64535230E+02	.33056582E+04	-.25855447E+01	.38804076E+02
31	.12285856E+00	.51453927E+00	.51453927E+00	.51453927E+00	.51453927E+00

TT(1) = 296.711 TT(2) = 0.000

YC					
1	.80142968E+03	.80142968E+03	.83270135E+03	.89980516E+03	.96690896E+03
6	.10620270E+04	.10831499E+04	.28172026E+03	.26059730E+03	.13420761E+03
11	.95624446E+03	.95624446E+03	.95043655E+03	.93763827E+03	.92436121E+03
16	.90466713E+03	.90466713E+03	.11407853E+04	.11407853E+04	.11539340E+04
21	.11829085E+04	.12129669E+04	.12575529E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.64535230E+02	.33056582E+04	-.25855447E+01	.33254061E+02

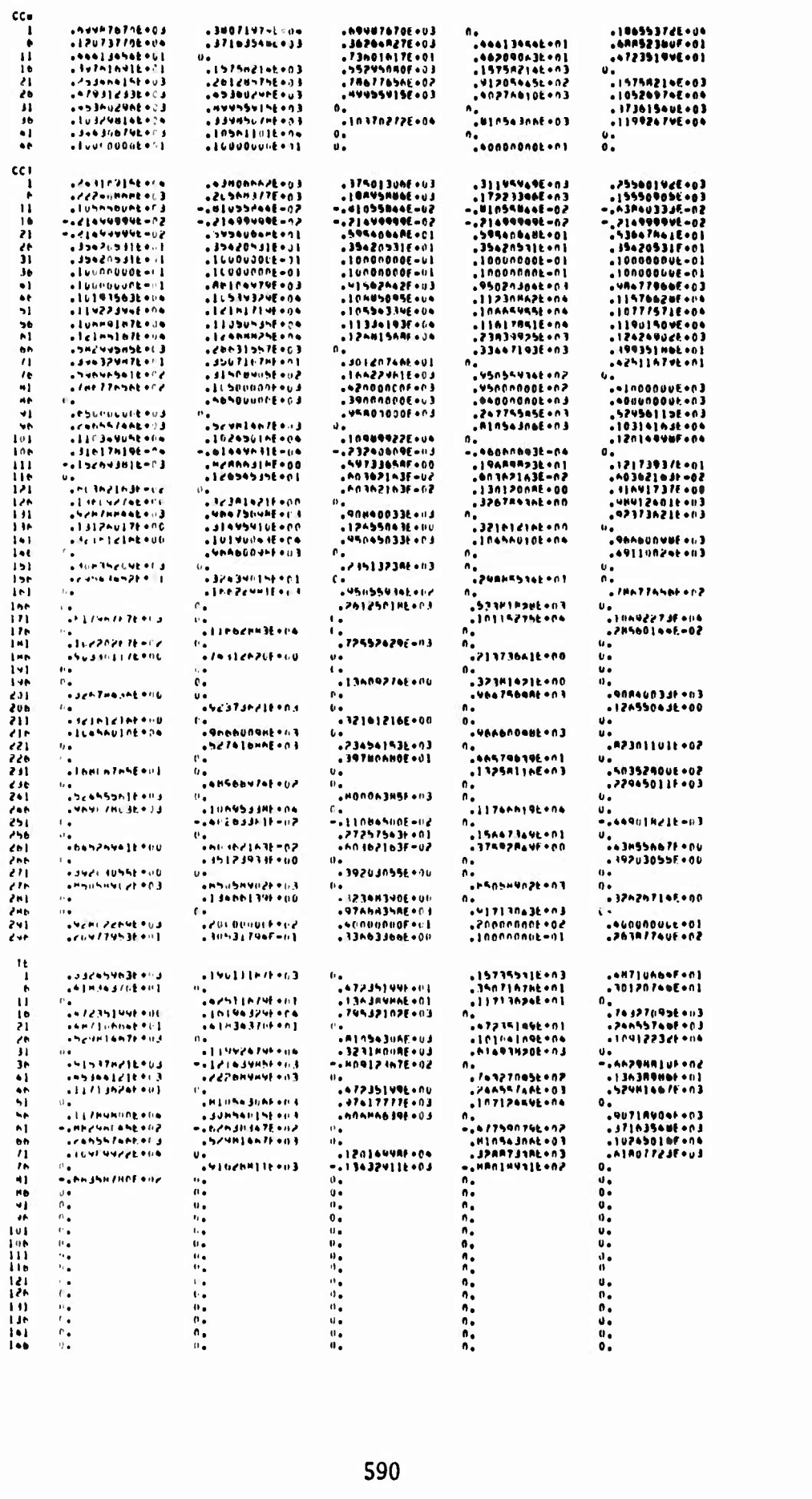
```
***TEWTI SUBR.  TF DEVICE SUMMARY DATA ARRAYS--TBH, TST, CCI***                    ** TEWTI - IP(11) *

  *TE DEVICE 1  TYPE A*

TBH
  1    .23839925E+03    0.               0.               0.               0.
  6    0.               0.               .28600000E+03    .14250000E+03    .98593333E+00
 11    0.               0.               0.               0.               .10100000E+01
 16    0.               .42000000E+03    .28740257E+03    .28740257E+03    .11600888E-02
 21    .29888274E+02    .59696541E+02    .59696541E+02    .59696541E+02   -.98886155E+03
 26    .23839925E+03    .39935144E+01    .10500000E+03    .34000000E+03    .30000000E+02
 31    .30329925E+02    .59000480E+05    .20588888E+00    0.               .10213620E+04
 36    .10915240E+04    .28900000E+03    .10000000F+01    .24775585E+03    .11053650E+01
 41    .95384759E-01    .10314163E+04    0.               0.               0.
 46    .10213620E+04    .32520474E+02    .24775585E+03    .33533393E+00    .60362163E-02
 51    0.               .10000000E+01    .10500000F+03    .39000000E+03    .30000000E+03
 56    .78500000E+00    .33000000E+03    .91000000E+00    0.               .13610000F+01
 61    0.               0.               0.               0.               0.
 66    0.               0.               0.               0.               .13610000E+01
 71    0.               .10000000E+01    .80000000E-04    .80000000E+00    .10500000E+01
 76    0.               0.               0.               0.               .10000000E+00
 81    .25000000E+00    .10000000E+09    .10000000F-01    .10000000E+01    .12500000E+00
 86    .10000000E+01    .45000000F+00    .15000000E+00    0.               0.
 91    0.               0.               0.               0.               0.
 96    0.               0.               0.               0.               0.

TST
  1    .10500000E+03    .39000000E+03    .10027866E+04    .10399700E+04    .10327866E+04
  6    .10701958E+04    .89175223E+03    .10034809E+04    .10588888E+04    .10949550E+04
 11    0.               0.               0.               0.               0.
 16    0.               .10327866E+04    .10701958E+04    0.               0
 21    0.               0.               .30000000E+02    .30324925E+02    .10713654E+03
 26    .91474788E+02    .30000000E+02    .30324925E+02    .11103440E+03    .10389911F+02
 31    0.               0.               0.               0.               0.
 36    0.               0.               0.               0.               0.
 41    0.               0.               0.               0.               0.
 46    0.               .60458999E-01    .60458999E-01   -.35811042E-03   -.65432740E-03

CCI
  1    .20310915E+04    .03000462E+03    .37501300E+03    .31195949E+03    .25500192E+03
  6    .22240884E+03    .20300377E+03    .10895000E+03    .17223300E+03    .15550905E+03
 11    .16505000E+03   -.81055444E-02   -.81055444E-02   -.81055444E-02   -.63840333E-02
 16   -.21499999E-02   -.21499999E-02   -.21499999E-02   -.21499999E-02   -.21499999E-02
 21   -.21499999E-02    .59540064E+01    .59540064E+01    .59540064E+01    .53047841E+01
 26    .35420531E+01    .35420531E+01    .35420531E+01    .35420531E+01    .35420531E+01
 31    .35420531E+01    .10000000F-01    .10000000E-01    .10000000E-01    .10000000E-01
 36    .10000000E-01    .10000000E-01    .10000000F-01    .10000000E-01    .10000000E-01
 41    .16000000E-01    .88104979E+03    .91902642E+03    .95020306E+03    .98677000E+03
 46    .10193503E+04    .10534329E+04    .10885005E+04    .11230885E+04    .11576620E+04
 51    .11922390E+04    .12281714E+04    .12656339E+04    .13066595E+04    .10777571E+04
 56    .10889187E+04    .11050535E+04    .11334193E+04    .11617851E+04    .11901509E+04
 61    .12185147E+04    .12468825E+04    .12681568E+04    .23830925E+03    0.
 66    0.               0.               0.               0.               .39935186E+01
 71    0.               0.               0.               0.               0.
 76    .59696541E+02    0.               0.               0.               0.
 81    0.               .16500000E+03    0.               0.               0.
 86    0.               0.               .39000000E+03    0.               0.
 91    0.               0.               0.               .24775585E+03    0.
 96    0.               0.               0.               0.               .10314163E+04
101    0.               0.               0.               0.               0.
106    .31617819E-04    0.               0.               0.               0.
111    0.               .42860631AE+00   0.               0.               0.
116    0.               0.               .60362163E-02    0.               0.
121    0.               0.               0.               .13012088E+00    0.
126    0.               0.               0.               0.               .88912401E+03
131    0.               0.               0.               0.               0.
136    .13126017E+00    0.               0.               0.               0.
141    0.               .10190043E+04    0.               0.               0.
146    0.               0.               0.               0.               0.
151    0.               0.               0.               0.               0.
156    0.               0.               0.               0.               0.
161    0.               0.               0.               0.               0.
166    0.               0.               0.               0.               0.
171    0.               0.               0.               0.               0.
176    0.               0.               0.               0.               0.
181    0.               0.               0.               0.               0.
186    0.               0.               0.               0.               0
191    0.               0.               0.               0.               0.
196    0.               0.               0.               0.               0.
201    0.               0.               0.               0.               0.
206    0.               0.               0.               0.               0.
211    0.               0.               0.               0.               0.
216    0.               0.               0.               0.               0.
221    0.               0.               0.               0.               0.
226    0.               0.               0.               0.               0.
231    0.               0.               0.               0.               0.
236    0.               0.               0.               0.               0.
241    0.               0.               0.               0.               0.
246    0.               0.               0.               0.               0.
251    0.               0.               0.               0.               0.
256    0.               0.               0.               0.               0.
261    0.               .60362163E-02    0.               0.               0.
266    0.               0.               0.               0.               0.
271    0.               0.               0.               0.               0.
276    0.               0.               0.               0.               0.
281    0.               0.               0.               0.               0.
286    0.               0.               0.               0.               0.
291    0.               0.               0.               0.               0.
296    .20977953E+01    .30531794E-01    .33403306E+00    .10000000E-01    .26387740E+02
```



ICS

1	.369059U1E+02	.9210480-7E+02	.8AA0A67AE+02	.82A9H8A9E+02	.75A0028AE+02
6	.7046177HE+02	.852959U0E+02	.A00047A0E+02	.55AA914AE+02	.A9359A22E+02
11	.2579163JE+02	0.	.2467982AE+04	.4413A3073E+04	.41472222E+04
16	.3955A30AE+04	.3869227AE+04	.3351A97E+04	.3A8A9125E+04	.2A146251E+04
21	.2A6257A2E+04	.2372A617E+04	.71AAA9A4E+03	0.	.30A16057E+04
26	.7338373AE+04	.6A9A72AAE+04	.5778722SE+04	.4078A3A3E+04	.43127A15E+04
31	.3704320AE+04	.3123A74AE+04	.2A6A937SE+04	.2115503AE+04	.1A111390E+04
36	0.	.8265811AE+02	.A9A259A3E+02	.8A37441AE+02	.7876SAA2E+02
41	.7335994AE+02	.6731671SE+02	.4295A929E+02	.5794218AE+02	.5197596AE+02
46	.4141A442E+02	.9A3307A71E+01	.3973A021E+03	-.9AA44001E+02	-.A4267263E+02
51	-.5378770SE+02	-.5947U7AAE+02	-.1A137398E+03	-.1341A72AE+03	-.1A33A269E+03
56	-.8811A355E+02	-.3194A317E+03	-.2511972IE+03	.87A14125E+04	.A9A776A5E+04
61	.613U7A35E+04	.537A0713E+04	.6AA1A473E+04	.3973A335E+04	.342A0106E+04
66	.2885359SE+04	.2355A021E+04	.14936465E+04	.3553A551E+03	.56A04317E+04
71	.5675A451E+04	.4535A617E+04	.3721A27E+04	.3A0A4225E+04	.23A0A47AE+04
76	.1895569AE+04	.1454A43AE+04	.1A4A3A2E+04	.7A3714I3E+03	.1372A85AE+03
81	.5724A840E+03	.7A93A425E+03	.6A98AA09E+03	.6317A3AAE+03	.5A2135A2E+03
86	.5217134AE+03	.5A0A8A5AE+03	.4465719AE+03	.4A5A4731E+03	.2749351AE+03
91	.7147385AE+04	.5787A417E+04	.4AA9A402E+04	.329A36AAE+04	.22A10912E+04
96	.1560594AE+04	.1202A677E+04	.9A1AA94AE+03	.7A127A0AE+03	.55AA853AE+03
101	.3571428AE+03	.A0A57A4AE+02	.87A935AAE+04	.4A9AA326E+04	.33A07917E+04
106	.2206A75E+04	.1561U271E+04	.1210652AE+04	.9A234073E+03	.743A496AE+03
111	.5549235AE+03	.3561194AE+03	.3A46A34AE+02	.96A8354AE+02	.4A52496AE+02
116	.8497437AE+02	.7961A75E+02	.7346514AE+02	.6A311A0AE+02	.A2754A2UE+02
121	.5720143ZE+02	.5164A9A3E+02	.3513A9436E+02	0.	.-4A53749AE+02
126	-.4U19A643E+02	-.3490243IE+02	-.3946A111E+02	-.3963A736E+02	-.3927130UE+02
131	-.3914A878E+02	-.3940652AE+02	-.3902A653E+02	-.4027287IE+03	0.
136	.A5003625E+04	.70A87A7AE+04	.4705A936E+04	.5AA41A7E+04	.5073551AE+04
141	.0342158AE+04	.3864U4A4E+04	.3A523AA7E+04	.2494A43AE+04	.17A2315E+04
146	0.	.7419483IE+04	.4A389153E+03	.55A76AA6E+04	.4513142E+04
151	.3651105E+04	.2701A4A4E+04	.2276178AE+04	.17A2874AE+04	.13A456A5E+04
156	.A6054A49E+05	0.	.4A9J6910E+05	.4203396AE+05	.5737721E+05
161	.5297A972E+05	.6AA0U497E+05	.4507176SE+05	.4127903E+05	.3752A679E+05
166	.3379167IE+05	.1757A11E+05	0.	.4799A126E+04	.3679A95E+04
171	.2629S40CE+04	.1011204AE+04	.1141157IE+04	.889A129AE+03	.70A9592E+03
176	.5205381AE+03	.4115934AE+03	.2215723SE+03	0.	.4A0A3999E+04
181	.3695532AE+04	.2A3147AE+04	.1A2A71A5E+04	.1137A31SAE+04	.4A0164196E+03
186	.7010397AE+03	.5367J41SE+03	.39A01241E+03	.2173A4A1E+03	0.
191	0.	.6994A767E+03	.4A2970A0E+03	.5708A200E+03	.A8A25732E+03
196	.4021SA63E+03	.3265SA37E+03	.2561A057E+03	.1908A457E+03	.13UA3962E+03
201	.7915A655E+02	.2571A33E+02	0.	.3273A511E+04	.2AA40281E+04
206	.2091421ZE+06	.1593U292E+06	.1155714SE+06	.A0A355A3E+05	.523A132AE+05
211	.30A9522AE+05	.1546954AE+05	.4570474AE+04	.714A4A89E+03	0.
216	.4A9836U2E+05	.2150143AE+05	.1A163A22E+05	.274AA896E+05	.21A401717E+05
221	.1A9121A1E+05	.1259A94AE+05	.8A3511A0E+04	.5771A001E+04	.3126A206E+04
226	.1011134AE+04	0.	.A4954A5E+04	.719227A5E+04	.5A3559J3E+04
231	.5A1300A9E+04	.4119737AE+04	.1342187AE+04	.2A7A4B2AE+04	.2109265AE+04
236	.1836193AE+04	.103A4E..5E+04	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.

CLFI

1	.3690597U1E+02	.9210480-7E+02	.8AA0A67AE+02	.82A9H8A9E+02	.75A0028AE+02
6	.7046177HE+02	.852959U0E+02	.A00047A0E+02	.55AA914AE+02	.A9359A22E+02
11	.2579163JE+02	0.	.2467982AE+04	.4413A3073E+04	.41472222E+04
16	.3955A30AE+04	.3869227AE+04	.3351A97E+04	.3A8A9125E+04	.2A146251E+04
21	.2A6257A2E+04	.2372A617E+04	.71AAA9A4E+03	0.	.30A16057E+04
26	.7338373AE+04	.6A9A72AAE+04	.5778722SE+04	.4078A3A3E+04	.43127A15E+04
31	.3704320AE+04	.3123A74AE+04	.2A6A937SE+04	.2115503AE+04	.1A111390E+04
36	0.	.8265811AE+02	.A9A259A3E+02	.8A37441AE+02	.7876SAA2E+02
41	.7335994AE+02	.6731671SE+02	.4295A929E+02	.5794218AE+02	.5197596AE+02
46	.4141A442E+02	.9A3307A71E+01	.3973A021E+03	-.9AA44001E+02	-.A4267263E+02
51	-.5378770SE+02	-.5947U7AAE+02	-.1A137398E+03	-.1341A72AE+03	-.1A33A269E+03
56	-.8811A355E+02	-.3194A317E+03	-.2511972IE+03	.87A14125E+04	.A9A776A5E+04
61	.613U7A35E+04	.537A0713E+04	.6AA1A473E+04	.3973A335E+04	.342A0106E+04
66	.2885359SE+04	.2355A021E+04	.14936465E+04	.3553A551E+03	.56A04317E+04
71	.5675A451E+04	.4535A617E+04	.3721A27E+04	.3A0A4225E+04	.23A0A47AE+04
76	.1895569AE+04	.1454A43AE+04	.1A4A3A2E+04	.7A3714I3E+03	.1372A85AE+03
81	.5724A840E+03	.7A93A425E+03	.6A98AA09E+03	.6317A3AAE+03	.5A2135A2E+03
86	.5217134AE+03	.5A0A8A5AE+03	.4465719AE+03	.4A5A4731E+03	.2749351AE+03
91	.7147385AE+04	.5787A417E+04	.4AA9A402E+04	.329A36AAE+04	.22A10912E+04
96	.1560594AE+04	.1202A677E+04	.9A1AA94AE+03	.7A127A0AE+03	.55AA853AE+03
101	.3571428AE+03	.A0A57A4AE+02	.87A935AAE+04	.4A9AA326E+04	.33A07917E+04
106	.2206A75E+04	.1561U271E+04	.1210652AE+04	.9A234073E+03	.743A496AE+03
111	.5549235AE+03	.3561194AE+03	.3A46A34AE+02	.96A8354AE+02	.4A52496AE+02
116	.8497437AE+02	.7961A75E+02	.7346514AE+02	.6A311A0AE+02	.A2754A2UE+02
121	.5720143ZE+02	.5164A9A3E+02	.3513A9436E+02	0.	.-4A53749AE+02
126	-.4U19A643E+02	-.3490243IE+02	-.3946A111E+02	-.3963A736E+02	-.3927130UE+02
131	-.3914A878E+02	-.3940652AE+02	-.3902A653E+02	-.4027287IE+03	0.
136	.A5003625E+04	.70A87A7AE+04	.4705A936E+04	.5AA41A7E+04	.5073551AE+04
141	.0342158AE+04	.3864U4A4E+04	.3A523AA7E+04	.2494A43AE+04	.17A2315E+04
146	0.	.7419483IE+04	.4A389153E+03	.55A76AA6E+04	.4513142E+04
151	.3651105E+04	.2701A4A4E+04	.2276178AE+04	.17A2874AE+04	.13A456A5E+04
156	.A6054A49E+05	0.	.4A9J6910E+05	.4203396AE+05	.5737721E+05
161	.5297A972E+05	.6AA0U497E+05	.4507176SE+05	.4127903E+05	.3752A679E+05
166	.3379167IE+05	.1757A11E+05	0.	.4799A126E+04	.3679A95E+04
171	.2629S40CE+04	.1011204AE+04	.1141157IE+04	.889A129AE+03	.70A9592E+03
176	.5205381AE+03	.4115934AE+03	.2215723SE+03	0.	.4A0A3999E+04
181	.3695532AE+04	.2A3147AE+04	.1A2A71A5E+04	.1137A31SAE+04	.4A0164196E+03
186	.7010397AE+03	.5367J41SE+03	.39A01241E+03	.2173A4A1E+03	0.
191	0.	.6994A767E+03	.4A2970A0E+03	.5708A200E+03	.A8A25732E+03
196	.4021SA63E+03	.3265SA37E+03	.2561A057E+03	.1908A457E+03	.13UA3962E+03
201	.7915A655E+02	.2571A33E+02	0.	.3273A511E+04	.2AA40281E+04
206	.2091421ZE+06	.1593U292E+06	.1155714SE+06	.A0A355A3E+05	.523A132AE+05
211	.30A9522AE+05	.1546954AE+05	.4570474AE+04	.714A4A89E+03	0.
216	.4A9836U2E+05	.2150143AE+05	.1A163A22E+05	.274AA896E+05	.21A401717E+05
221	.1A9121A1E+05	.1259A94AE+05	.8A3511A0E+04	.5771A001E+04	.3126A206E+04
226	.1011134AE+04	0.	.4A9J6910E+05	.4203396AE+05	.5737721E+05
231	.5A1300A9E+04	.4119737AE+04	.1342187AE+04	.2A7A4B2AE+04	.2109265AE+04
236	.1836193AE+04	.103A4E..5E+04	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.

IWG					
1	0.	0.	.A09M7A70E+03	.3M071479E+04	0.
6	0.	0.	0.	0.	0.
11	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.
31	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.
61	0.	0.	0.	0.	0.
66	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.
96	0.	0.	0.	0.	0.
101	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
136	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
151	0.	0.	0.	0.	0.
156	0.	0.	0.	0.	0.
161	0.	.699B767DE+03	.A629704A0E+03	.570BA200E+03	.6A625732E+03
166	.402158A3E+03	.32655A37E+03	.2561A057E+03	.190A0457E+03	.1308396ZE+03
171	.75150655E+02	.2579183BE+02	0.	.32736511E+06	.2686021FE+06
176	.20916212E+06	.15A302A2F+06	.11557145E+06	.80435543E+05	.523A1329E+05
181	.3089526BE+05	.1506505AE+05	.5578674BE+04	.7169A989E+03	0.
186	.445A3802E+05	.4150149AE+05	.34183A22E+05	.27AAH896E+05	.2189017IE+05
191	.16912141E+05	.12599A34E+05	.8B451190E+04	.5771A401E+04	.31267026E+04
196	.1011139BE+04	0.	0.	0.	0.
201	0.	0.	0.	0.	0.
206	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.
216	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
226	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
236	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.
251	0.	0.	0.	0.	0.
256	0.	0.	0.	0.	0.
261	0.	0.	0.	0.	0.
266	0.	0.	0.	0.	0.
271	0.	0.	0.	0.	0.
276	0.	0.	0.	0.	0.
281	0.	0.	0.	0.	0.
286	0.	0.	0.	0.	0.
291	0.	0.	0.	0.	0.
296	0.	0.	0.	0.	0.
301	0.	0.	0.	0.	0.
306	0.	0.	0.	0.	0.
311	0.	0.	0.	0.	0.
316	0.	0.	0.	0.	0.
321	0.	0.	0.	0.	0.
326	0.	0.	0.	0.	0.
331	0.	0.	0.	.9552H4A8E+00	.H9A20A1F+00
336	.H514713/E+00	.780A7A32E+00	.7343253AE+00	.8772D551E+00	.A2232B3ZF+00
341	.5775700AE+00	.5119180CE+00	.3568578IE+00	0.	0.
346	0.	0.	0.	0.	0.
351	0.	0.	0.	0.	0.
356	0.	0.	0.	0.	0.
361	0.	0.	0.	0.	0.
366	0.	0.	0.	0.	0.
371	0.	0.	0.	0.	0.
376	0.	0.	0.	0.	0.
381	0.	0.	0.	0.	0.
386	0.	0.	0.	0.	0.
391	0.	0.	0.	0.	0.
396	0.	0.	0.	0.	0.

TCS

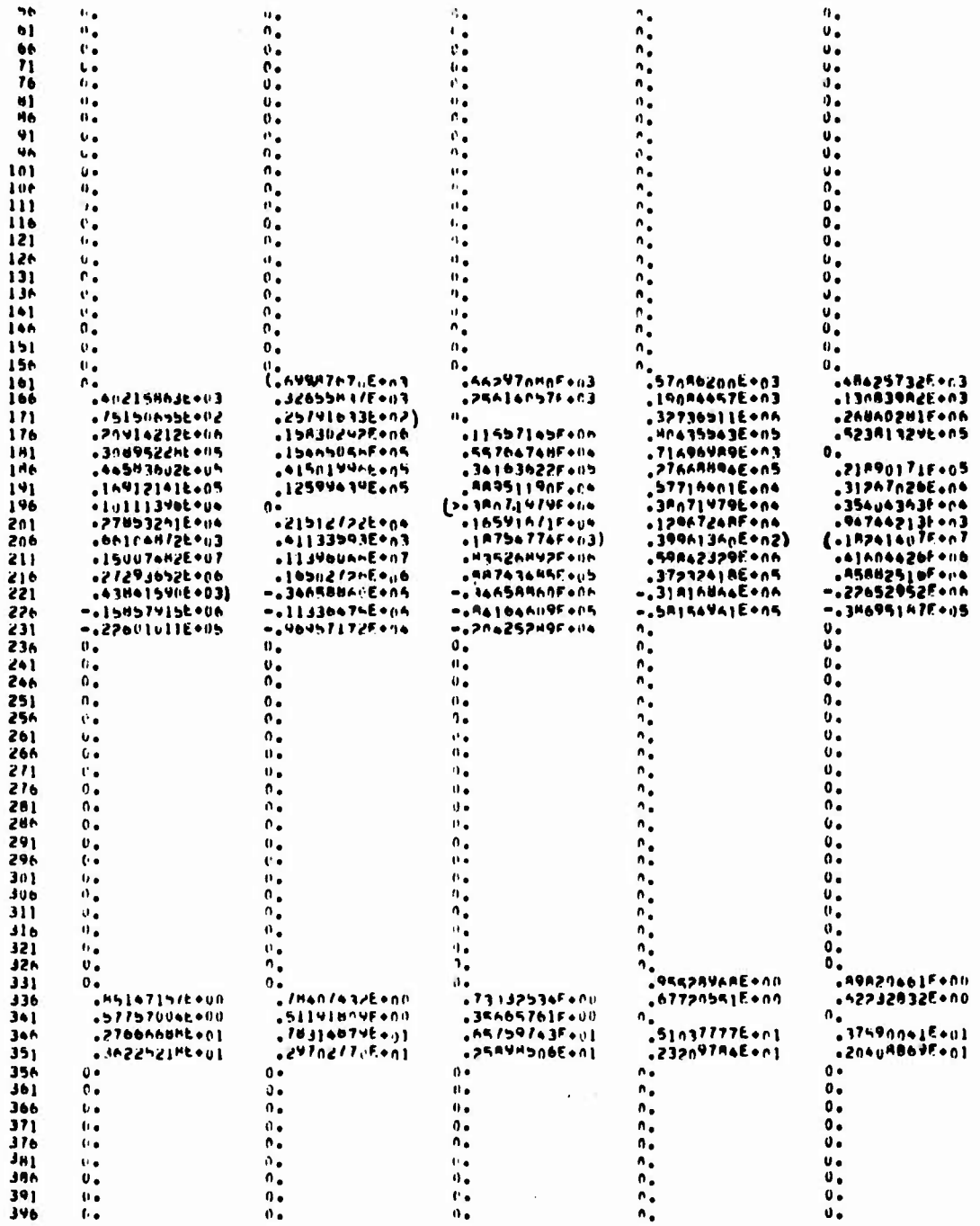
1	0.	.2067615nE+03	.7551102	.9340539	.4921
6	.3624423	.3492827	.2883941	.2407127	.2237
11	.1675863	.3996134	0.	.1977353	.1577
16	.2942047	.2240252	.1817736	.1455710	.1254
21	.1185015	.1056085	.5240037	.4384159	0.
26	-.2841945	-.9163912	-.4795037	-.6521439	-.2420
31	-.2600904	-.1945975	-.1809417	-.1290529	-.7453
36	-.2042528	.1701492	.4736816	.7017652	.5629
41	.4027342	.3882318	.3307466	.2534387	.2371
46	.1851143	.1132659	.7212386	.4245871	-.1410
51	-.1406581	-.1029503	-.6746804	-.5474013	-.3131
56	-.4680384	-.1428937	-.9194849	-.1421252	-.7688
61	-.8058630	-.5591405	-.3461743	-.2877402	-.2350
66	-.1670662	-.1452724	-.1015246	-.5731554	.1208
71	.9668713	.1010867	.5990362	.3133847	.2343
76	.1762913	.1171555	.9413808	.5890200	.3804
81	.3174956	.4056873	.5453467	.4456443	.3644
86	.2897222	.2582964	.2104322	.1455545	.1231
91	.4080527	.9846480	.2811481	.2105572	.1233
96	.6500942	.4726694	.3720681	.2351532	.1780
101	.1202613	.8304434	.9445578	.2488828	.2014
106	.1200338	.6455572	.4742419	.3757194	.2376
111	.1805723	.1217027	.8291287	.6936089	.4529
116	.5343801	.3919680	.3026518	.3278451	.2061
121	.2360134	.2088507	.1348205	0.	.1776
126	-.8600617	-.8866806	-.1249935	-.2467836	-.2439
131	-.8007418	-.1922781	-.1922801	-.1400909	0.
136	-.9437588	-.7928462	-.5671038	-.3584961	-.1983
141	-.2561236	-.1864965	-.1400220	-.1246436	-.8875
146	0.	.1403978	.1042902	.8656697	.3503
151	.2810992	.2131405	.1445524	.1142884	.8423
156	.3691613	0.	.4254867	.4364297	.4564
161	.2680238	.2377763	.2149236	.1891954	.1546
166	.1301252	.6962180	0.	.2278369	.1584
171	.9503806	.5116203	.3614668	.2872697	.1922
176	.1380573	.1048413	.8065472	0.	.2011
181	.1626936	.8859504	.5002425	.3581094	.2961
186	.1976168	.1433914	.1048173	.6011402	0.
191	0.	.3807197	.3807197	.3540463	.2725
196	.2151272	.1059107	.1296724	.9476402	.6561
201	.4113359	.1875477	.4998136	.1824164	.1500
206	.1139406	.8352689	.5984232	.4140442	.2729
211	.1650272	.8874348	.3723241	.2584251	.1436
216	-.3665886	-.3665886	-.3134868	-.2265295	-.1585
221	-.1133647	-.8816460	-.5481569	-.3640514	-.2284
226	-.9695717	-.2042564	.1442768	.1083923	.8743
231	.3762752	.3042579	.2361570	.1842385	.1314
236	.9589229	.4379758	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.

CTEI

1	0.	.2067615nE+03	.7551102	.9340539	.4921
6	.3624423	.3492827	.2883941	.2407127	.2237
11	.1675863	.3996134	0.	.1977353	.1577
16	.2942047	.2240252	.1817736	.1455710	.1254
21	.1185015	.1056085	.5240037	.4384159	0.
26	-.2841945	-.9163912	-.4795037	-.6521439	-.2420
31	-.2600904	-.1945975	-.1809417	-.1290529	-.7453
36	-.2042528	.1701492	.4736816	.7017652	.5629
41	.4027342	.3882318	.3307466	.2534387	.2371
46	.1851143	.1132659	.7212386	.4245871	-.1410
51	-.1406581	-.1029503	-.6746804	-.5474013	-.3131
56	-.4680384	-.1428937	-.9194849	-.1421252	-.7688
61	-.8058630	-.5591405	-.3461743	-.2877402	-.2350
66	-.1670662	-.1452724	-.1015246	-.5731554	.1208
71	.9668713	.1010867	.5990362	.3133847	.2343
76	.1762913	.1171555	.9413808	.5890200	.3804
81	.3174956	.4056873	.5453467	.4456443	.3644
86	.2897222	.2582964	.2104322	.1455545	.1231
91	.4080527	.9846480	.2811481	.2105572	.1233
96	.6500942	.4726694	.3720681	.2351532	.1780
101	.1202613	.8304434	.9445578	.2488828	.2014
106	.1200338	.6455572	.4742419	.3757194	.2376
111	.1805723	.1217027	.8291287	.6936089	.4529
116	.5343801	.3919680	.3026518	.3278451	.2061
121	.2360134	.2088507	.1348205	0.	.1776
126	-.8600617	-.8866806	-.1249935	-.2467836	-.2439
131	-.8007418	-.1922781	-.1922801	-.1400909	0.
136	-.9437588	-.7928462	-.5671038	-.3584961	-.1983
141	-.2561236	-.1864965	-.1400220	-.1246436	-.8875
146	0.	.1403978	.1042902	.8656697	.3503
151	.2810992	.2131405	.1445524	.1142884	.8423
156	.3691613	0.	.4254867	.4364297	.4564
161	.2680238	.2377763	.2149236	.1891954	.1546
166	.1301252	.6962180	0.	.2278369	.1584
171	.9503806	.5116203	.3614668	.2872697	.1922
176	.1380573	.1048413	.8065472	0.	.2011
181	.1626936	.8859504	.5002425	.3581094	.2961
186	.1976168	.1433914	.1048173	.6011402	0.
191	0.	.3807197	.3807197	.3540463	.2725
196	.2151272	.1059107	.1296724	.9476402	.6561
201	.4113359	.1875477	.4998136	.1824164	.1500
206	.1139406	.8352689	.5984232	.4140442	.2729
211	.1650272	.8874348	.3723241	.2584251	.1436
216	-.3665886	-.3665886	-.3134868	-.2265295	-.1585
221	-.1133647	-.8816460	-.5481569	-.3640514	-.2284
226	-.9695717	-.2042564	.1442768	.1083923	.8743
231	.3762752	.3042579	.2361570	.1842385	.1314
236	.9589229	.4379758	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.

TWG

1	0.	0.	.4934787	.3807197	0.
6	0.	0.	0.	0.	0.
11	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.
31	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.



CASE NO 1 ** WLETE - IP(12) **

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973

C 141 TEST CASE ---NO. 1 ---

****LEADING EDGE AND TRAILING EDGE STRUCTURE WEIGHT AND DISTRIBUTION SUMMARIES****

	WT-LB/AV	W/S-LB/SF	AREA-SF/AV	YCG(FP)	XCG(FS)	YCG(ST)	XCG(ST)
TOTAL L. EDGE STRUCTURES	1349.75	4.441	315.164	453.60	899.56	467.78	63.62
**FIXED LEADING EDGE--*	1349.75	4.441	315.164	453.60	899.56	467.78	63.62
TOTAL T. EDGE STRUCTURES	5855.81	5.277	1105.199	411.65	1058.70	493.71	-96.41
FIXED TRAILING EDGE--	1952.51	3.852	506.927	373.62	1032.98	448.52	-90.75
TE DEV 1. /SPOILERS-/	476.80	3.994	119.393	247.76	1031.42	332.76	-140.17
TE DEV 2. /SPOILERS-/	240.60	3.443	69.818	529.56	1103.49	619.66	-92.24
TE DEV 3. /S-S FLAPS/	1619.43	4.871	332.459	246.56	1010.41	323.18	-121.44
TE DEV 4. /S-S FLAPS/	795.31	4.163	190.111	529.81	1091.22	614.94	-80.91
TE DEV 6. /AILERONS-/	743.27	4.724	157.355	810.54	1199.25	915.38	-66.30

****1-G L.E. AND T.E. LOADS SUMMARY****

STA	**L.E. STRUCTURES** SHEAR	b-MOM	T-MOM	**T.E. STRUCTURES** SHEAR	b-MOM	T-MOM
1	663.0	268602.6	41502.6	2917.9	1177999.0	-277286.6
2	570.9	209142.0	34164.3	2765.5	899952.8	-260994.9
3	484.2	158302.9	27669.6	2212.3	659990.4	-189352.4
4	402.2	115571.6	21890.7	1713.9	471340.4	-132408.0
5	326.6	80435.7	16912.6	1295.0	327090.9	-92451.7
6	256.1	52391.5	12599.8	1021.9	214568.6	-69507.3
7	190.8	30895.4	8845.4	740.8	129731.6	-47613.1
8	130.8	15465.2	5771.8	513.0	70699.8	-31500.2
9	75.2	5576.5	3126.8	327.2	30201.4	-18874.5
10	25.8	717.0	1011.2	153.8	7148.5	-8324.4
11	0.0	0.0	0.0	34.6	392.9	-1836.4

CASE NO 1 ** WLETE - IP(12) **

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973

C 141 TEST CASE ---NO. 1 ---

TRAILING EDGE DEVICE COMPONENT SUMMARY

	WT-LB/AV	W/S-LB/SF	AREA-SF/AV	YCG(FP)	XCG(FS)	YCG(ST)	XCG(ST)
TE DEV 3. /S-S FLAPS/	1619.43	4.871	332.459	246.56	1010.41	323.18	-121.44
/PANELS /	1165.99	3.507	332.459	246.56	1024.50	328.87	-134.33
/SUPPORTS /	453.44	1.364	332.459	246.56	974.18	308.54	-88.30
TE DEV 4. /S-S FLAPS/	795.31	4.163	190.111	529.81	1091.22	614.94	-80.91
/PANELS /	572.63	3.012	190.111	529.81	1098.99	618.08	-88.02
/SUPPORTS /	222.69	1.171	190.111	529.81	1071.24	606.87	-62.66
TE DEV 6. /AILERONS-/	743.27	4.724	157.355	810.54	1199.25	915.38	-66.30
/PANELS /	668.94	4.251	157.355	810.54	1201.50	916.29	-68.36
/SUPPORTS /	74.33	0.472	157.355	810.54	1178.98	907.19	-47.76

** CTOT2 (CALLED FROM TISCNT) - IP(15) =

TT(1) = 937.634 TT(2) = 0.000

YC					
1	.1131211?E+04	.11312117E+04	.11476451E+04	.11829085E+04	.12181719E+04
6	.12661568E+04	.12681568E+04	.13694513E+03	.13694513E+03	.70526744E+02
11	.95624446E+03	.95624446E+03	.95043655E+03	.93763827E+03	.92436121E+03
16	.90466713E+03	.90466713E+03	.11407853E+04	.11407853E+04	.11539340E+04
21	.11829085E+04	.12129669E+04	.12575529E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.6453523(E+02	.33056582E+04	-.25855447E+01	.13794573E+02
31	.10073066E+00	.51453927E+00	.51453927E+00	.51453927E+00	.5145392?E+00

TT(1) = 959.649 TT(2) = 0.000

YC					
1	.11425373E+04	.11425373E+04	.11584611E+04	.11926310E+04	.12268009E+04
6	.12752359E+04	.12752359E+04	.13269861E+03	.13269861E+03	.68339783E+02
11	.95624446E+03	.95624446E+03	.95043655E+03	.93763827E+03	.92436121E+03
16	.90466713E+03	.90466713E+03	.11407853E+04	.11407853E+04	.11539340E+04
21	.11829085E+04	.1212966?E+04	.12575529E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.64535230E+02	.33056582E+04	-.25855447E+01	.13270045E+02
31	.10000139E+00	.51453927E+00	.51453927E+00	.51453927E+00	.51453927E+00

TT(1) = 947.370 TT(2) = 0.000

YC					
1	.11362190E+04	.11362190E+04	.11524271E+04	.11872070E+04	.12219870E+04
6	.12712866E+04	.12712866E+04	.13506764E+03	.13506764E+03	.69559837E+02
11	.95624446E+03	.95624446E+03	.95043655E+03	.93763827E+03	.92436121E+03
16	.90466713E+03	.90466713E+03	.11407853E+04	.11407853E+04	.11539340E+04
21	.11829085E+04	.12129669E+04	.12575529E+04	.12575529E+04	.12765145E+03
26	.12765145E+03	.6453523(E+02	.33056582E+04	-.25855447E+01	.13562667E+02
31	.10041389E+00	.51453927E+00	.51453927E+00	.51453927E+00	.51453927E+00

MISCNT SUMP--MISC CONTENT VIS--CCI, IST, IRT ARRAYS ** MISCNT - IP(13) *

IP DATA, IST AND CCI (91-110)

CCI					
91	.1994255RE+02	.2081812FE+02	.9677036RE+00	.9473R957E+03	.1203752RE+04
96	.1,423591E+04	-.1513505RE+02	.3044836RE+05	.1027343RE+04	.2R44R978E+05
101	.1332124RE+05	0.	0.	0.	0.
106	0.	0.	0.	0.	0.

IST					
1	.22011644E+02	.4R444952E+00	.11312117E+04	.11312117E+04	.1147R451E+04
6	.1142908RE+04	.1214177RE+04	.12R8156RE+04	.1268156RE+04	.13R4451RE+03
11	.1394451RE+03	.7052R744E+02	.1017306RE+00	.11425373E+04	.11425373E+04
16	.1158461IE+04	.1192631RE+04	.1226RR09E+04	.1275235RE+04	.1275235RE+04
21	.1326988RIE+03	.1326985RIE+03	.9R339743E+02	.1000013RE+00	.1167207E+04
26	-.1R6545R7E+02	.1099R9R-E+01	.1220655RE+01	.9424439RE+00	.3913499RE+00
31	.1052518RE+02	.9417373RE+01	.9731594RE+01	.1227944E+02	.3422954RE+03
36	.9530412RE+03	.1201R313E+04	.1266123RE+04	.1190RR43E+04	.1203752RE+04
41	.1208RR6RE+04	.9376382RE+03	.9473594RE+03	.6275171IE+00	.5671331RE+01
46	.1360R639E+03	.1338R31RE+03	.1356266RE+02	.1263703RE+02	.1190RR16E+03

MISCNT SUBR--MISC CONTENT FIS--CCI, TST, TGR ARRAYS ** MISCNT - IP(13) *

**CONC ITEM DATA, TGR AND CCI

CCI

1	0.	0.	0.	0.	0.
6	0.	0.	0.	0.	0.
11	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.

TGR

1	0.	0.	0.	0.	0.
6	0.	0.	0.	.87444144E+02	.87200000E+03
11	-.13432543E-02	.32418752E+03	-.56424178E-03	.40000000E+00	-.15341026E-02
16	.25000000E+00	.68052004E-01	.87200000E+03	.39875063E-01	.17920400E+01
21	.77259654E-01	.71681600E+00	.11316052E+04	.17920400E+00	.11184868E+04
26	.58200000E+03	.12294662E+04	.29000000E+03	.11520139E+04	.93900894E+00
31	.11752588E+04	0.	.12674920E+04	0.	0.
36	0.	0.	0.	.89251618E+00	0.
41	0.	-.58720063E-04	-.67526877E-03	0.	-.12344954E-02
46	0.	0.	.51969736E-02	.47558873E-01	0.
51	.61885919E-01	0.	0.	.10194432E+04	.11184868E+04
56	0.	.12294662E+04	0.	0.	.10964528E+04
61	.11752588E+04	0.	.12674920E+04	0.	0.
66	0.	0.	0.	.22514094E+00	0.
71	0.	-.16303921E-03	-.10502736E-02	0.	-.85451487E-03
76	0.	0.	.59763124E-02	.41284156E-01	0.
81	.20952325E-01	0.	0.	.10081189E+04	.11049334E+04
86	0.	.12173615E+04	0.	0.	.10309946E+04
91	.11270026E+04	0.	.12332688E+04	.37972806E+04	.37972806E+04
96	.37972806E+04	.10026117E+01	.10026117E+01	.10026117E+01	0.

```
***PRTM SUBR -- DATA=CCI ARRAY.  CALC DATA=TCS, TST, TSM ARRAYS***                    ** PRT( = IP(1,1) *

CCI
  1    0.                  0.                  0.                  0.                  0.
  6    0.                  0.                  0.                  0.                  0.
 11    0.                  0.                  0.                  0.                  0.
 16    0.                  0.                  0.                  0.                  0.
 21    0.                  0.                  0.                  0.                  0.
 26    0.                  0.                  0.                  0.                  0.
 31     .73007710E+03      0.                   .12992290E+03      0.                   .78000000E+02
 36    0.                   .66000000E+03      0.                   .66000000E+03      0.
 41     .95000000E+03      0.                   .90086893E+03      0.                   .11172218E+04
 46    0.                   .11172218E+04      0.                   .12250344E+04      0.
 51     .12472590E+03      0.                   .74452831E+03      0.                   .74452831E+03
 56    0.                   .10533064E+04      0.                   .19301422E+01      0.                   .19001368E+01
 61    -.18536345E-02      0.                  -.16284787E-02      0.                   .37177448E+00
 66    0.                  -.16284787E-02      0.                   .18900996E+01      0.
 71     .18859176E+01      0.                   .37177448E+00      0.                   .40070109E-01
 76    0.                   .37177448E+00      0.                   .40070109E-01      0.                   .12037528E+04
 81     .35050E+03         0.                  -.96817016E+02      0.                   .94736987E+03      0.
 86    0.                  -.96817016E+02      0.                   .96770363E+00      0.                   .12992290E+03
 91     .19942558E+02       .20608126E+02      0.                   .30643632E+05      0.
 96     .10423591E+04      -.15135055E+02      0.                   .10273532E+04      0.                   .13570535E+02
101     .13321243E+05      0.                  0.                  0.                  0.                   .33450284E+02
106    0.                  0.                  0.                  0.                  0.                   .22549367E+02
111    0.                  0.                  0.                  0.                  0.
116     .12992290E+03      0.                  0.                   .73007710E+03      0.
121    0.                  0.                  0.                  0.                  0.
126    0.                  0.                  0.                   .31277227E+02      0.
131    0.                   .13570535E+02      0.                   .97088473E+01      0.
136    -.30423869E-01      0.                  -.13315993E-01      0.
141    0.                   .22359098E+02      0.                  -.27829861E-01      0.
146    -.12180641E-01      0.                   .34748331E+02      0.                  0.
151    0.                  0.                  0.                  0.                  0.
156    0.                  0.                  0.                  0.                  0.
161    0.                  0.                  0.                  0.                  0.
166    0.                  0.                  0.                  0.                  0.
171    0.                  0.                  0.                  0.                  0.
176    0.                  0.                  0.                  0.                  0.
181    0.                  0.                  0.                  0.                  0.
186    0.                  0.                  0.                  0.                  0.
191    0.                  0.                  0.                  0.                  0.
196    0.                  0.                  0.                  0.                  0.
201    0.                  0.                  0.                  0.                  0.
206    0.                  0.                  0.                  0.                  0.
211    0.                  0.                  0.                  0.                  0.
216    0.                  0.                  0.                  0.                  0.
221    0.                  0.                  0.                  0.                  0.
226    0.                  0.                  0.                  0.                  0.
231    0.                  0.                  0.                  0.                  0.
236    0.                  0.                  0.                  0.                  0.
241    0.                  0.                  0.                  0.                  0.
246    0.                  0.                  0.                  0.                  0.
251    0.                  0.                  0.                  0.                  0.
256    0.                  0.                  0.                  0.                  0.
261    0.                  0.                  0.                  0.                  0.
266    0.                  0.                  0.                  0.                  0.
271    0.                  0.                  0.                  0.                  0.
276    0.                  0.                  0.                  0.                  0.
281    0.                  0.                  0.                  0.                  0.
286    0.                  0.                  0.                  0.                  0.
291    0.                  0.                  0.                  0.                  0.
296    0.                  0.                  0.                  0.                  0.
```

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***PRTV SUBR ** DATA=CCI ARRAY. CALC DATA=TCS. TST. TGR ARRAYS***                    ** PAGE = 127,41 *

 *DIST. LINE ITEMS.  TST,TGR,TCS(1-141). STA  1  LINE  3

TST
  1     .2201104aE+02     .4846495a2E+00     .1131211 7E+04     .1131211 7E+04     .1147b65 E+04
  6     .1182 0 5E+04     .1218171 9E+04     .1248156 8E+04     .1248156 8E+04     .1364651 E+03
 11     .1369451 E+03     .7052 74 4E+02     .1007306 E+01     .1142537 E+04     .1142537 E+04
 16     .1158401 1E+04     .1192631 E+04     .1220800 E+04     .1275236 E+04     .1275236 E+04
 21     .1326986 1E+03     .1326984 1E+03     .6833978 3E+02     .1000013 9E+00     .1147207 E+04
 26    -.1656578 7E+02     .1099894 E+01     .1220656 E+01     .9626463 E+00     .6491396 E+00
 31     .1052518 5E+02     .9417377 E+01     .9731599 7E+01     0.                .5423064 E+01
 36     0.                .1038628 7E+04     0.                -.3442864 E+02     0.
 41     .2294978 3E+02     0.                .3846337 2E+03     .2832964 5E+02     .1761754 E+01
 46     .7841973 7E+00     .1359364 7E+02     .7371897 7E+02    -.3442864 E+02    -.1864963 E+03

TGR
  1     .1025035 1E+04     .1025035 1E+04     .1053386 E+04     .2145813 E+04     .2145813 E+04
  6     .1682741 0E+00    -.3524304 E+02    -.3524304 E+02    -.3356124 E+02     .1720000 E+03
 11    -.1343254 3E-02     .3241875 2E+03    -.5862419 E-03     .4000000 E+00    -.1544120 E-02
 16     .2500000 E+00     .6805200 E-01     .1720000 E+03     .3987504 E-01     .1742864 E+01
 21     .7725965 4E-01     .7168100 E+00     .1131605 E+04     0.                0.
 26     .3637978 E-11    -.2705041 E+01     .1025035 1E+04     .1025035 1E+04     .1025035 1E+04
 31     .1025035 1E+04     .9376382 7E+03     .8225404 E+03     .9504493 1E+03     .9504493 1E+03
 36     .1147865 1E+04     .1182940 5E+04     .1218171 9E+04     .7052674 4E+02     .7239556 E+03
 41     .1153934 0E+04     .1182940 5E+04     .1212986 E+04     .6453523 E+02     .6822532 E+03
 46     .9504365 5E+03     .9376382 7E+03     .9263412 1E+03     .4756887 3E-01     0.
 51     .6148591 9E-01     0.                0.                .1019447 2E+04     .1114886 E+04
 56     0.                .1229406 2E+04     0.                0.                .1054652 E+04
 61     .1175258 8E+04     0.                .1247492 0E+04     0.                0.
 66     0.                0.                0.                .2251804 E+00     0.
 71     0.                -.1630392 1E-03    -.1050273 6E-02    0.                0.
 76     .6730986 3E+00     0.                .2145813 E+04     0.                .7446243 1E+03
 81     0.                .1025035 1E+04     0.                -.5200311 4E+02    0.
 86    -.3524304 6E+02     0.                0.                .7168100 E+00     0.
 91     .1792040 0E+00     0.                .6689000 0E+03     0.                .9500000 E+03
 96     0.                .1117221 E+04     0.                .1225034 4E+04     0.

TCS
  1     0.                0.                0.                0.                0.
  6     0.                0.                0.                0.                0.
 11     .2536560 5E+02     0.                0.                0.                0.
 16     0.                0.                0.                0.                0.
 21     0.                .4192033 E+03     0.                0.                0.
 26     0.                0.                0.                0.                0.
 31     0.                0.                -.6895280 8E+03    0.                0.
 36     0.                0.                0.                0.                0.
 41     0.                0.                0.                .2536560 5E+02     0.
 46     0.                0.                0.                0.                0.
 51     0.                0.                0.                0.                .4134203 3E+03
 56     0.                0.                0.                0.                0.
 61     0.                0.                0.                0.                0.
 66    -.4884528 0E+03     0.                0.                0.                0.
 71     0.                0.                0.                0.                0.
 76     0.                .3966464 5E+05     0.                0.                0.
 81     0.                0.                0.                0.                0.
 86     0.                0.                .2064928 4E+05     0.                0.
 91     0.                0.                0.                0.                0.
 96     0.                0.                .1994255 8E+02     0.                0.
101     0.                0.                0.                0.                0.
106     0.                0.                0.                .6345327 4E+03     0.
111     0.                0.                0.                0.                0.
116     0.                0.                0.                0.                -.6112444 E+03
121     0.                0.                0.                0.                0.
126     0.                0.                0.                0.                0.
131     .4931717 0E+05     0.                0.                0.                0.
136     0.                0.                0.                0.                0.
141     0.                .2121691 E+05     0.                0.                0.
```

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***MISCNT SUBR--MISC CONTENT PTS--CCI, TST, TGR ARRAYS***                    ** LISCM1 - IP(13) *

**DIST LINE DATA.  TGR AND CCI

CCI
 31    .73007710E+03   0.              .12992290E+03   0.              .78000000E+02
 36    0.              .66000000E+03   0.              .66000000E+03   0.
 41    .95000000E+03   0.              .90084893E+03   0.              .11172218E+04
 46    0.              .11172218E+04   0.              .12250364E+04   0.
 51    .12472590E+03   0.              .74452831E+03   0.              .74452831E+03
 56    0.              .10533646E+04   0.              -.18474639E-02  0.
 61    -.18538345E-02  0.              .19361422E+01   0.              .19403468E+01
 66    0.              -.16289787E-02  0.              -.16345950E-02  0.
 71    .18859174E+01   0.              .18960996E+01   0.              .37177468E+00
 76    0.              .37177468E+00   0.              .87185050E+03   0.
 81    .87185050E+03   0.              .60070109E-01   0.              .60070109E-01
 86    0.              -.96817014E+02  0.              -.96817016E+02  0.
 91    .19942558E+02   .20608124E+02   .96770363E+00   .94736987E+03   .12037528E+04
 96    .10423591E+04   -.15135055E+02  .30543632E+05   .10273332E+04   .28445978E+05
101    .13321243E+05   0.              0.              0.              0.
106    0.              0.              0.              0.              0.
111    0.              0.              0.              0.              0.
116    0.              0.              0.              0.              0.
121    0.              0.              0.              0.              0.
126    0.              0.              .31277227E+02   0.              .13570535E+02
131    0.              .13570535E+02   0.              .97088973E+01   0.
136    -.30423869E-01  0.              -.13315993E-01  0.              .33650249E+02
141    0.              .22359090E+02   0.              -.27829841E-01  0.
146    -.12180641E-01  0.              .34748331E+02   0.              .22639367E+02
151    0.              0.              0.              0.              0.

TGR
  1    .86300000E+03   .78000000E+02   .95000000E+03   .70000000E+00   .95000000E+00
  6    .66000000E+03   .40000000E+00   .25000000E+00   .87464144E+02   .47200000E+03
 11    -.13432543E-02  .32419752E+03   -.56424178E-03  .40000000E+00   -.15341028E-02
 16    .25000000E+00   .68052004E-01   .87200000E+03   .39875063E-01   .17920400E+01
 21    .77259654E-01   .71681600E+00   .11316052E+04   .17920400E+00   .11184868E+04
 26    .58200000E+03   .12294662E+04   .29100000E+03   .11520139E+04   .43900894E+03
 31    .11752588E+04   0.              .12674920E+04   0.              0.
 36    0.              0.              0.              .89251515E+00   0.
 41    0.              -.58720063E-04  -.67526877E-03  0.              -.12344954E-02
 46    0.              0.              .51463736E-02   .47558873E-01   0.
 51    .61885919E-01   0.              0.              .10194432E+04   .11184868E+04
 56    0.              .12294662E+04   0.              0.              .10566528E+04
 61    .11752588E+04   0.              .12674920E+04   0.              0.
 66    0.              0.              0.              .22515094E+00   0.
 71    0.              -.16303921E-03  -.10502736E-02  0.              -.55514787E-04
 76    0.              0.              .59763124E-02   .41284156E-01   0.
 81    .20952365E-01   0.              0.              .10081136E+04   .11184868E+04
 86    0.              .12173615E+04   0.              0.              .10439045E+04
 91    .11270026E+04   0.              .12332648E+04   .37372806E+04   .37972406E+04
 96    .37972806E+04   .10026117E+01   .10026117E+01   .10026117E+01   0.
```

PRTM SUBR--FINAL OUTPUT DATA ARRAYS--TCS AND CCI(100-201)

TCS

1	.92828044E+02	.14591114E+03	.13375H94E+03	.11540A8AE+03	.10045A63E+03
6	.85302446E+02	.70164065E+02	.5496364?E+02	.3976429?E+02	.1934155?E+02
11	.25365065E+02	.62943407E+04	.4912A12?E+04	.6182127?E+04	.9451A630E+04
16	.47211583E+04	.39906735E+04	.3260128?E+04	.2527A24?E+04	.1794A22?E+04
21	.66588010E+03	.41920J3?E+03	-.?1234535E+04	-.1211107?E+05	-.1068?05?E+05
26	-.82584656E+04	-.65953?34E+04	-.5107570?E+04	-.3705232?E+04	-.2454?55?E+04
31	-.16932910E+04	-.74359?86E+03	-.4?4?52?0?E+03	.1341504?E+02	.1535171?E+03
36	.13836?82E+03	.12322136E+03	.10?07496E+03	.9292497?E+02	.7776?89?E+02
41	.62035392E+02	.47449?82E+02	.2917?40?E+02	.3437647?E+02	.5?5595?0?E+03
46	-.19513620E+03	-.1920711?E+03	-.1?45?0103E+03	-.1?46?52?E+03	-.1794?67?E+04
51	-.17400?08E+03	-.16?49?71E+03	-.1?0?A159E+03	-.2790?107E+03	.2473?1?3E+03
56	-.11889512E+04	-.13190?63E+05	-.11089063E+05	-.9142?033E+04	-.7411?0?7E+04
61	-.98302312E+04	-.44361096E+04	-.3210?37?E+04	-.2159347?E+04	-.1164376?E+04
66	-.81510401E+03	.10650774E+06	.1140374?F+07	.8?40559?E+06	.?5539?2?E+06
71	.91127420E+06	.38865?73E+06	.2543?69?F+06	.1455?1?1E+06	.?5?4477?E+05
76	.47171119E+05	.5139100?E+05	.2?223?69F+05	.1?44?35?E+06	.1113?91?E+06
81	.98531977E+05	.859103?5E+05	.7350?019F+05	.6127?872E+05	.49191775E+05
86	.37230258E+05	.2004?5?5E+05	.25019913F+05	.1505122?E+03	.1346?178E+03
91	.12229301E+03	.1?791?5?E+03	.9343?3?3F+02	.7915?151E+02	.5477?0?3E+02
96	.90358370E+02	.3593?6?5E+02	.3978?9?5E+02	0.	-.?2?629?2E+02
101	-.10567334E+03	-.10567334E+03	-.10567334E+03	-.10567334E+03	-.10567334E+03
106	-.10980027E+03	-.10803?53E+03	-.10803753E+03	.6A3695?AE+03	0.
111	-.14193114E+05	-.12033?A?E+05	-.10009611E+05	-.8142?22?E+04	-.5?43102?E+04
116	-.50007498E+04	-.3685J491E+04	-.2565?47?E+04	-.1582?06?E+04	-.132?14?7E+04
121	0.	.13586?A9E+07	.1?770?A1F+07	.8341?2A1E+06	.?2?4?0?3F+06
126	.66111603E+06	.32434?70E+0?	.21?J3052F+06	.1337?0A1E+06	.?3?855?2E+05
131	.76274068E+05	0.	.10227?16E+06	.?2A?3673E+05	.?2?365?6F+05
136	.72031530E+05	.62023957E+05	.521890A1F+05	.4?501?30E+05	.4?47?76?F+05
141	.23495?86E+05	.3270?9?1E+05	0.	.?80?42?6E+03	.?8?042?6F+03
146	.880942?6E+03	.880942?6E+03	.?80?42?6F+03	.8809?272E+03	.1000?000E+01
151	.10000000E+01	.10000004E+01	0.	0.	0.
156	0.	0.	0.	0.	0.
161	0.	0.	0.	0.	0.
166	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.
176	0.	0.	0.	0.	0.
181	0.	0.	0.	0.	0.
186	0.	0.	0.	0.	0.
191	0.	0.	0.	0.	0.
196	0.	0.	0.	0.	0.
201	0.	0.	0.	0.	0.
206	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.
216	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
226	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
236	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	.8809?6?6E+03	.10000000E+01	.147?1571E+02	.1024?9?0E+04

CCI

169	.880942?6E+03	.?8811J71E+03	.6422?255E+03	.5114?J57E+03	.395?3?7?E+03
174	.29538214E+03	.21007?A?E+03	.1393?009F+03	.8?0A?9?6F+02	.4?2?71?JE+02
179	.25365?05E+02	.3442?6A?E+06	.2?19A0A?F+06	.1931?697E+06	.1374115?E+06
184	.93993443E+05	.6079?0?4E+05	.3A545101F+05	.1970?94AE+05	.9072?7?0F+04
189	.29193927E+04	.41920J3?E+03	-.59?703?7E+05	-.5154?A?3E+05	-.3?4J57?0F+05
194	-.29338739E+05	-.21?80273E+05	-.1??A497?E+05	-.9377?492E+04	-.5?21A?6F+04
199	-.29254105E+04	-.12371149E+04	-.?8?52?08F+03	0.	0.

COL SUAR--TGR AND TCS ARRAYS

** COL = [illegible] *

TCS

1	.92828844E+02	.16591114E+03	.13075849E+03	.11544084E+03	.10045445E+03
6	.85302446E+02	.70149044E+02	.54983642E+02	.39754921E+02	.19461558E+02
11	.25365605E+02	.62944407E+04	.49124126E+04	.41821278E+04	.34514436E+04
16	.47211583E+04	.39906735E+04	.32401242E+04	.25270424E+04	.17966223E+04
21	.66588016E+03	.19203470E+03	-.81236535E+04	-.12111078E+05	-.10097057E+05
26	-.82504656E+04	-.65953076E+04	-.51075705E+04	-.37852328E+04	-.26567556E+04
31	-.16932916E+04	-.76359044E+03	-.48852804E+03	.13615097E+02	.15351710E+03
36	.13036882E+03	.12322176E+03	.10407494E+03	.92824971E+02	.77786492E+02
41	.62653942E+02	.47444742E+02	.29178469E+02	.36364784E+02	.58555408E+03
46	-.19913820E+03	-.19207118E+03	-.18859103E+03	-.18460526E+03	-.17999472E+03
51	-.17400008E+03	-.16464971E+03	-.14488159E+03	-.12784107E+03	-.10734188E+03
56	-.11889512E+04	-.13190861E+05	-.11489003E+05	-.91627033E+04	-.74117401E+04
61	-.58302312E+04	-.44361094E+04	-.32104837E+04	-.21893479E+04	-.11493747E+04
66	-.81510461E+03	.10650774E+04	.11403794E+07	.89405491E+04	.68534242E+06
71	.51127620E+06	.36865973E+06	.25439491E+06	.16551921E+06	.98846772E+05
76	.47171119E+05	.51391009E+05	.24223949E+05	.17464354E+04	.11137917E+04
81	.98531977E+05	.85910244E+05	.73507019E+05	.61274872E+05	.49191774E+05
86	.37238250E+05	.20048644E+05	.25019913E+05	.15051222E+03	.13041412E+04
91	.67624041E+04	.13984511E+04	.44110017E+04	.79159151E+02	.94777043E+02
96	.50358370E+02	.35930644E+02	.30784484E+02	0.	-.42062992E+02
101	.87464915E+05	-.87676242E+05	.94900643E+05	-.95111490E+05	-.10548734E+03
106	-.10580027E+03	-.10603753E+03	-.10403753E+03	.44359504E+03	0.
111	-.16193114E+05	.12098624E+04	.10052801E+07	.12711705E+04	.93056648E+04
116	-.50007494E+04	-.30852491E+04	-.25454247E+04	-.15824064E+04	-.13201447E+04
121	0.	.13586049E+07	.12665931E+04	.24439595E+09	.32331123E+04
126	.22367475E+09	.32434597E+06	.21433052E+06	.13372841E+04	.73284554E+05
131	.76276008E+05	0.	.10227814E+06	.19514113E+08	.76342892E+04
136	.20850500E+08	.71086524E+08	.52189041E+05	.42501630E+05	.32972747E+05
141	.23495786E+05	.32704901E+05	0.	.78000000E+04	.31154672E+03
146	.14706835E+03	.83000000E+02	.27387211E+08	.47824000E+07	.27387211E+04
151	.28500000E+03	.76754374E+03	.43000000E+02	.25214202E+03	.13452497E+03
156	.78080004E+04	.50287634E+03	.13734214E+04	.81000000E+02	.27387211E+04
161	.47824000E+07	.27387211E+08	.44000000E+04	.83458404E+03	.81000000E+02
166	.44738354E+03	.12563205E+03	0.	0.	0.
171	0.	0.	0.	0.	0.
176	0.	0.	0.	0.	0.
181	0.	0.	0.	0.	0.
186	0.	0.	0.	0.	0.
191	0.	0.	0.	0.	0.
196	0.	0.	0.	0.	0.
201	0.	0.	0.	0.	0.
206	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.
216	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
226	0.	0.	.10000000E+01	.10000000E+01	0.
231	0.	0.	0.	0.	.28960000E+02
236	.28960000E+02	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	.48804254E+03	.10000000E+01	.14781571E-02	.10264948E-04

TGR

1	-0.	-0.	0.	0.	0.
6	0.	0.	0.	0.	0.
11	0.	0.	.78000000E+04	.50287634E+03	.13734214E+03
16	.27387211E+08	.47824000E+07	.27387211E+08	.44000000E+03	.43458404E+03
21	.81000000E+02	.44738354E+03	.12563205E+03	0.	0.
26	0.	0.	0.	0.	0.
31	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	.47193124E+03
61	.75000000E+00	.75000000E+00	.75000000E+00	.10000000E+01	.75000000E+00
66	.10000000E+01	.69000067E+03	.70000000E+02	.70000000E+02	.70000000E+02
71	.19000000E+03	.70000000E+02	.19400000E+03	.68334141E+02	0.
76	.10000000E+01	0.	.80515300E+00	0.	.12472590E+03
81	.16528376E+00	.83471024E+00	.88194931E+02	.73417741E+02	-.14577190E+02
86	.69174044E+04	-.95000316E+05	.14378104E+03	.93780778E+06	.52791462E+06
91	.22589677E+09	.50010088E+08	.10000000E+01	0.	0.
96	0.	.90084893E+03	.25000000E+01	.15000000E+01	.37500000E+01

CMIT

1	0.	.9282H844E+02	.1459111AE+03	.13075H98E+03	.1154AAAUE+03
6	.1004546JE+03	.8530244AE+02	.701A9A05E+02	.5496A3A2E+02	.3475926JE+02
11	.1984155HE+02	.253A50H5E+02	0.	.H2963407E+04	.H912H126E+04
16	.A18Z12/AE+04	.5451643HE+04	.4721159JE+04	.3904A734E+04	.3284012H2E+04
21	.2527624AE+04	.1794D4Z3E+04	.A65BHA16E+03	.4102A33AE+03	0.
26	-.8123454JE+04	-.1211107BE+05	-.1011705/E+05	-.8258A65AE+04	-.4545303AE+04
31	-.5107570JE+04	-.J795243HE+04	-.2A5A754HE+04	-.1A0329JAE+04	-.7A35AA0HE+03
36	-.4885280HE+03	.1361504/E+02	.1535171UE+03	.1393AHA2E+03	.1232213UE+03
41	.1U0074A6E+03	.9242447JE+02	.777HAA92E+02	.62A154J2E+02	.47A447HEE+02
46	.2917A4U0E+02	.3A3A4/AAE+02	.5A505AUAE+03	-.1951J62AE+03	-.1920711BE+03
51	-.1A859103E+03	-.1H4AU32UE+03	-.1739A472E+03	-.1744UUUHE+03	-.1AA4A571E+03
56	-.160HA194E+03	-.2790710/E+03	.2472A143E+03	-.1188A512E+04	-.1319UH43E+05
61	-.1108A063E+05	-.9162/U33E+04	-.7411740/E+04	-.5A342312E+04	-.4436104AE+04
66	-.3210H378E+04	-.2159J479E+04	-.1144J747E+04	-.8151A41E+03	.1045U774E+04
71	.1140379AE+07	.8V405V91E+06	.4A53H282E+06	.5112742UE+06	.3AH4597JE+06
76	.2363A491E+06	.1659147IE+06	.9884772E+05	.4717111AE+05	.5139100VE+05
81	.2622394AE+05	.1244835HE+06	.1113/917E+06	.9853197/E+05	.H591A3A6E+05
86	.735070191E+05	.6127B872E+05	.4911/779E+05	.3723825AE+05	.2004A69JE+05
91	.2501991JE+05	.1505122ZE+03	.1704141AE+04	.674A2041E+04	.1398A511E+04
96	.6611001/E+04	.791594141E+02	.A4/770M3E+02	.5A3583/0E+02	.3543AAA5E+02
101	.3978A94HE+02	0.	-.A2142992E+02	.H74A4Y15E+05	-.47A7A2B2E+05
106	.9A90A043E+05	-.9511149UE+05	-.1050733AE+03	-.1058A027E+03	-.1064A3753E+03
111	-.1060375JE+03	.4035950AE+03	0.	-.1419311AE+05	-.1264A4A2JE+06
116	.1005201E+07	.1271705E+06	.9305464BE+06	-.5A0074A8E+04	-.3AH539J8E+04
121	-.2549424/E+04	-.1582904HE+04	-.1320147/E+04	0.	.1358A6A9E+07
126	.3240594JE+08	.2483959/E+09	.1233112JE+08	.2234787/E+09	.3243457UE+08
131	.2163305ZE+06	.1337284AE+06	.792H5592E+05	.7A27A04AE+05	0.
136	.1022781UE+08	.1951411JE+08	.7A362992E+08	.2A0A50A0E+08	.711A4529E+08
141	.5218940JE+05	.6250103UE+05	.3297274/E+05	.2346574AE+05	.3274A4U1E+05
146	0.	.1994295HE+02	.1000A000E+01	.AA000004E+03	0.

TVMT

1	0.	0.	0.	0.	0.
6	0.	0.	0.	0.	0.
11	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.
31	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.
61	0.	0.	0.	0.	0.
66	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.
96	0.	0.	0.	0.	0.
101	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
136	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
151	0.	0.	0.	0.	0.
156	0.	0.	0.	0.	0.
161	0.	0.	0.	0.	0.
166	.78080000E+04	.31150472E+03	.14706835F+03	.83000000E+02	.27387211F+08
171	.57026000E+07	.27387211E+08	.9A500000E+03	.74756376E+03	.A3000000E+02
176	.2521420ZE+03	.1365289?E+03	.7A080000E+04	.502A7039E+03	.1373421BE+03
181	.81000000E+02	.27387211E+08	.47424000E+07	.273A7211E+08	.44000000F+03
186	.8345B908E+03	.81000000E+02	.44738354E+03	.1296320SE+03	0.
191	0.	0.	0.	0.	0.
196	0.	0.	0.	0.	0.
201	0.	0.	0.	0.	0.
206	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.
216	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
226	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
236	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.

** CTOT2 (CALLED FROM FCTS - LOOP 112) - IP(15) =

TT(1) = 78.000 TT(2) = 903.198

YC					
1	.6888946 06E+03	.6888946 06E+03	.7252291 8E+03	.8031982 9E+03	.8911574 0E+03
6	.9916967 2E+03	.1055471 9E+04	.3665778 5E+03	.3027926 6E+03	.1559382 2E+03
11	.1191392 4E+03	.1191392 4E+03	.1062978 6E+03	.7800000 0E+02	.4864375 2E+02
16	.5099139 0E+01	-.2753249 1E+02	.7100618 2E+03	.7100618 2E+03	.7341343 1E+03
21	.8031982 9E+03	.8969588 8E+03	.9442409 2E+03	.1042116 7E+04	.1830055 9E+03
26	.2822438 6E+03	.1426904 8E+03	.9737450 3E+03	-.2390488 9E+01	.4711223 E+02
31	.1282434 9E+00	.5145392 7E+00	.5145392 7E+00	.5145392 7E+00	.5145392 7E+00

TT(1) = 98.700 TT(2) = 912.342

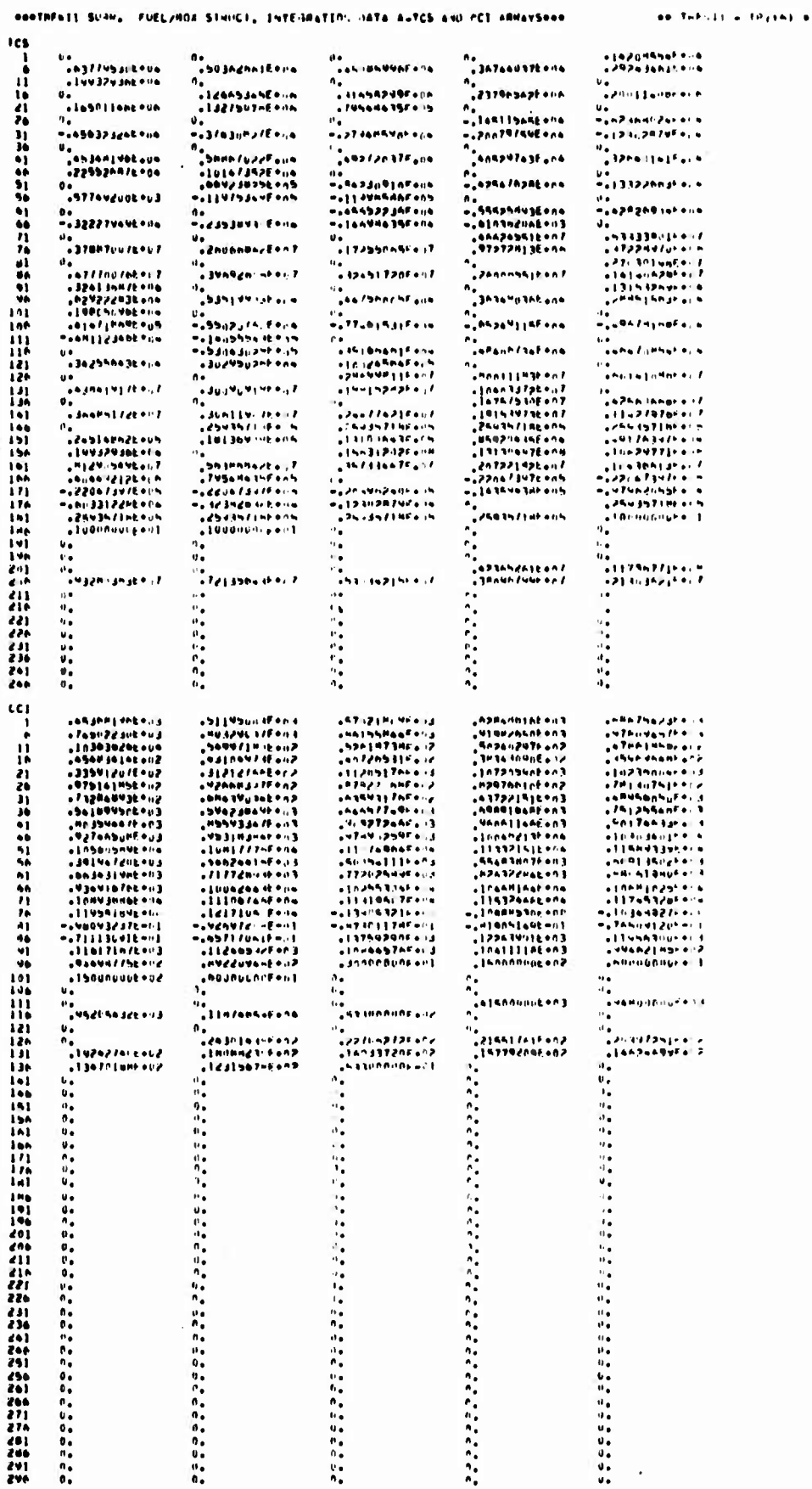
YC					
1	.6995450 3E+03	.6995450 3E+03	.7354009 1E+03	.8123416 7E+03	.8852824 3E+03
6	.9983441 0E+03	.1058091 5E+04	.3585464 8E+03	.2987990 7E+03	.1538841 5E+03
11	.1392966 5E+03	.1392966 5E+03	.1246244 3E+03	.9870000 0E+02	.5973093 7E+02
16	.2676064 3E+02	-.4103423 5E+01	.7204336 0E+03	.7204336 0E+03	.7491228 5E+03
21	.8123416 7E+03	.8779256 5E+03	.9752075 2E+03	.1045081 7E+04	.3549084 3E+03
26	.2785212 9E+03	.1408067 6E+03	.1035791 8E+04	-.2390488 9E+01	.4571201 2E+02
31	.1274925 7E+00	.5145392 7E+00	.5145392 7E+00	.5145392 7E+00	.5145392 7E+00

TT(1) = 119.400 TT(2) = 921.485

YC					
1	.7101959 9E+03	.7101959 9E+03	.7455726 5E+03	.8214850 6E+03	.8973974 7E+03
6	.1005001 5E+04	.1060711 1E+04	.3515151 1E+03	.2948054 6E+03	.1518248 2E+03
11	.1594540 6E+03	.1594540 6E+03	.1469512 1E+03	.1196000 0E+03	.7924812 2E+02
16	.4842214 6E+02	.1932504 9E+02	.7308053 7E+03	.7308053 7E+03	.7541198 5E+03
21	.8214850 6E+03	.8861925 6E+03	.9821741 3E+03	.1048046 6E+04	.3484111 0E+03
26	.2747987 2E+03	.1384267 3E+03	.1041798 6E+04	-.2390488 9E+01	.4441250 1E+02
31	.1267072 4E+00	.5145392 7E+00	.5145392 7E+00	.5145392 7E+00	.5145392 7E+00

TT(1) = 140.100 TT(2) = 930.628

YC					
1	.7208469 5E+03	.7208469 5E+03	.7557443 8E+03	.8306284 4E+03	.9055125 0E+03
6	.1011658 8E+04	.1063336 7E+04	.3424837 4E+03	.2909111 9E+03	.1497681 2E+03
11	.1796114 6E+03	.1796114 6E+03	.1672774 9E+03	.1401000 0E+03	.1119053 1E+03
16	.7608365 0E+02	.4275471 1E+02	.7411771 5E+03	.7411771 5E+03	.7630993 1E+03
21	.8306284 4E+03	.8946593 2E+03	.9849140 7E+03	.1051011 6E+04	.3347134 8E+03
26	.2710761 5E+03	.1370447 5E+03	.1147805 4E+04	-.2390488 9E+01	.4311350 6E+02

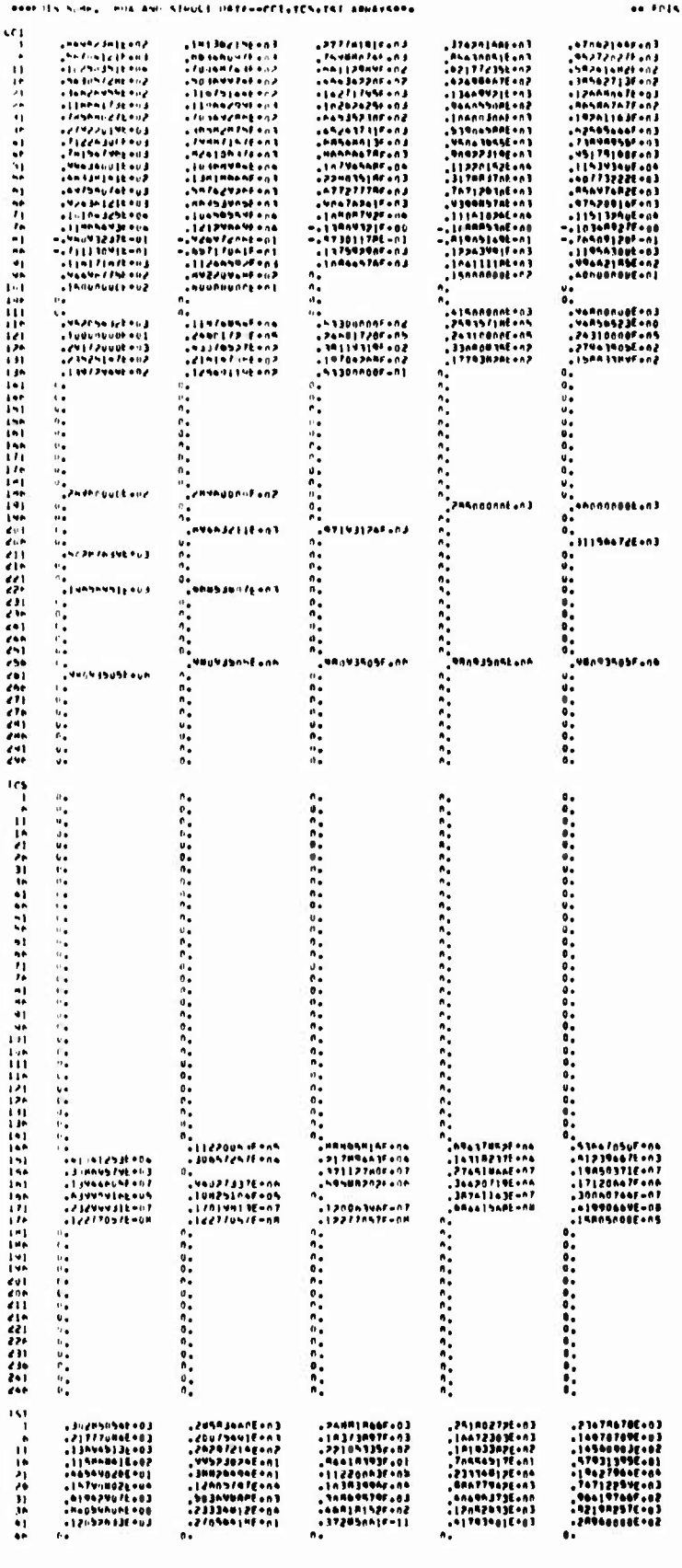


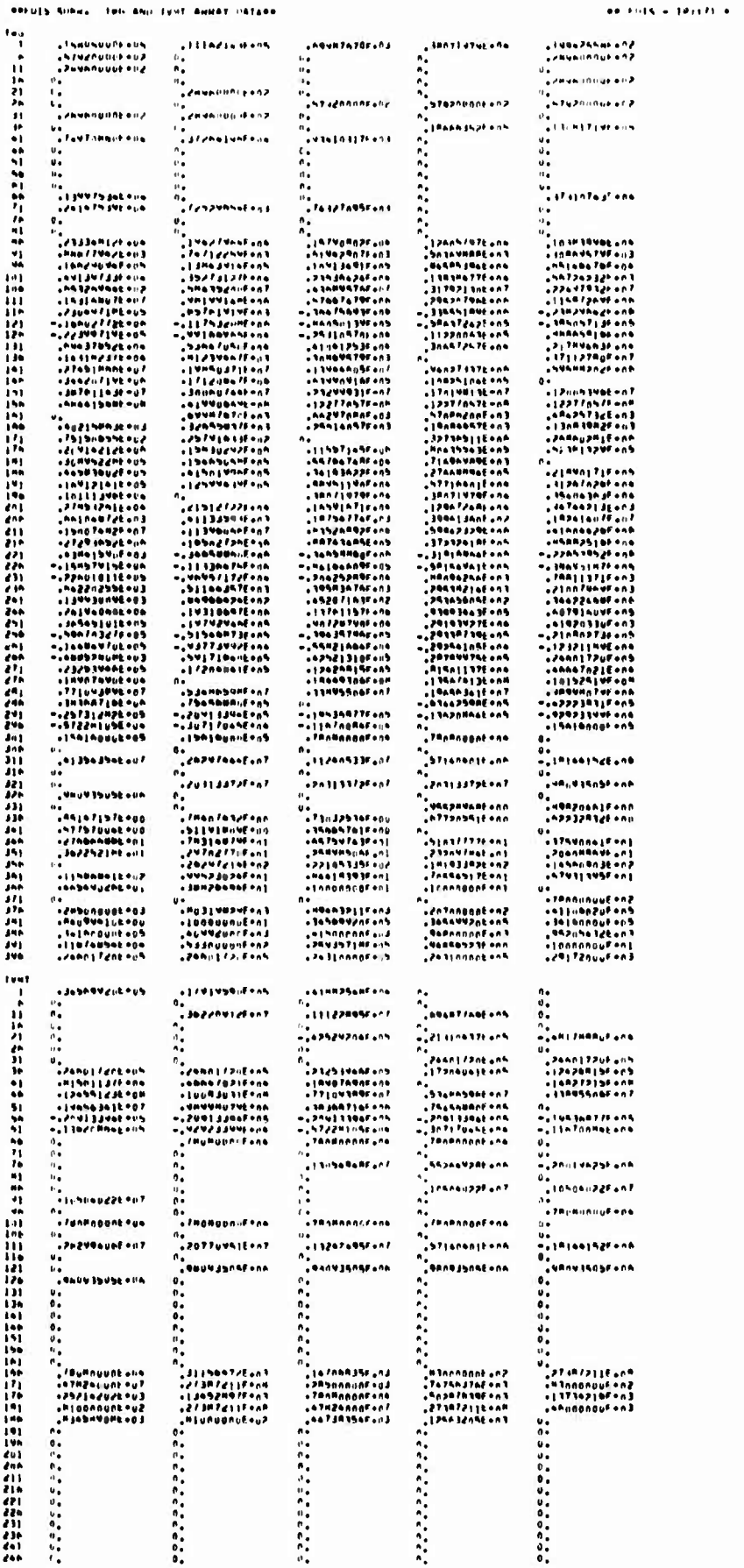
CCI

1	.4527[illegible]E+02	.1078[illegible]E+03	.1305[illegible]E+03	.1591[illegible]E+03	.1757[illegible]E+03
6	.1994[illegible]E+03	.2210[illegible]E+03	.2638[illegible]E+03	.2849[illegible]E+03	.2989[illegible]E+03
11	.3115[illegible]E+03	.7003[illegible]E+02	.4911[illegible]E+02	.6818[illegible]E+02	.4724[illegible]E+02
16	.4630[illegible]E+02	.8561[illegible]E+02	.4469[illegible]E+02	.4394[illegible]E+02	.4246[illegible]E+02
21	.4172[illegible]E+02	.6079[illegible]E+02	.1426[illegible]E+03	.1408[illegible]E+03	.1389[illegible]E+03
26	.1370[illegible]E+03	.1351[illegible]E+03	.1332[illegible]E+03	.1313[illegible]E+03	.1295[illegible]E+03
31	.1276[illegible]E+03	.1257[illegible]E+03	.1238[illegible]E+03	.1062[illegible]E+03	.1266[illegible]E+03
36	.1249[illegible]E+03	.1072[illegible]E+03	.1870[illegible]E+03	.2079[illegible]E+03	.2282[illegible]E+03
41	.2489[illegible]E+03	.2689[illegible]E+03	.2892[illegible]E+03	.3095[illegible]E+03	.7341[illegible]E+03
46	.7491[illegible]E+03	.7591[illegible]E+03	.7690[illegible]E+03	.7790[illegible]E+03	.7890[illegible]E+03
51	.7990[illegible]E+03	.8090[illegible]E+03	.8190[illegible]E+03	.8290[illegible]E+03	.8390[illegible]E+03
56	.4868[illegible]E+02	.4973[illegible]E+02	.9081[illegible]E+02	.1119[illegible]E+03	.1329[illegible]E+03
61	.1540[illegible]E+03	.1751[illegible]E+03	.1962[illegible]E+03	.2173[illegible]E+03	.2384[illegible]E+03
66	.2595[illegible]E+03	.8094[illegible]E+03	.8779[illegible]E+03	.8881[illegible]E+03	.8966[illegible]E+03
71	.9027[illegible]E+03	.9109[illegible]E+03	.9192[illegible]E+03	.9275[illegible]E+03	.9357[illegible]E+03
76	.9440[illegible]E+03	.9523[illegible]E+03	-.4009[illegible]E+00	-.3937[illegible]E+00	-.3865[illegible]E+00
81	-.3793[illegible]E+00	-.3793[illegible]E+00	-.3690[illegible]E+00	-.3617[illegible]E+00	-.3544[illegible]E+00
86	-.3496[illegible]E+00	-.3496[illegible]E+00	.2801[illegible]E+03	.2593[illegible]E+03	.2584[illegible]E+03
91	.2672[illegible]E+03	.2595[illegible]E+03	.2553[illegible]E+03	.2597[illegible]E+03	.2519[illegible]E+03
96	.2500[illegible]E+03	.2491[illegible]E+03	.3000[illegible]E+01	.1500[illegible]E+02	.6000[illegible]E+01
101	.1500[illegible]E+02	.6000[illegible]E+01	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	0.	.7800[illegible]E+02	.2850[illegible]E+03
116	.2[illegible]14[illegible]E+03	.8[illegible]E+03	.2[illegible]E+02	.4[illegible]E+00	.4[illegible]E+00
121	.1[illegible]E+01	.3[illegible]E+05	.3[illegible]E+05	.3[illegible]E+05	.3[illegible]E+05
126	.4[illegible]E+03	.4[illegible]E+02	.4[illegible]E+02	.4[illegible]E+02	.3[illegible]E+02
131	.3[illegible]E+02	.3[illegible]E+02	.3[illegible]E+02	.3[illegible]E+02	.3[illegible]E+02
136	.3[illegible]E+02	.3[illegible]E+02	.5300[illegible]E-01	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
151	0.	0.	0.	0.	0.
156	0.	0.	0.	0.	0.
161	0.	0.	0.	0.	0.
166	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.
176	0.	0.	0.	0.	0.
181	0.	0.	0.	0.	0.
186	0.	0.	0.	0.	0.
191	0.	0.	0.	0.	0.
196	0.	0.	0.	0.	0.
201	0.	0.	0.	0.	0.
206	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.
216	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
226	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
236	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
246	0.	0.	0.	0.	0.
251	0.	0.	0.	0.	0.
256	0.	.9809[illegible]E+06	.9809[illegible]E+06	.9809[illegible]E+06	.9809[illegible]E+06
261	.9809[illegible]E+06	0.	0.	0.	0.
266	0.	0.	0.	0.	0.
271	0.	0.	0.	0.	0.
276	0.	0.	0.	0.	0.
281	0.	0.	0.	0.	0.
286	0.	0.	0.	0.	0.
291	0.	0.	0.	0.	0.
296	0.	0.	0.	0.	0.

151

1	.7800[illegible]E+02	.2850[illegible]E+03	.3720[illegible]E-01	.1000[illegible]E+01	.3416[illegible]E+05
6	.1200[illegible]E-01	0.	.3128[illegible]E+02	.1418[illegible]E+03	.1618[illegible]E+03
11	0.	.2259[illegible]E+03	.2164[illegible]E+03	.2079[illegible]E+03	.1991[illegible]E+03
16	.1905[illegible]E+03	.1820[illegible]E+03	.1737[illegible]E+03	.1656[illegible]E+03	.1575[illegible]E+03
21	.1496[illegible]E+03	.1418[illegible]E+03	.4134[illegible]E+05	.5000[illegible]E+04	.4806[illegible]E+04
26	.4606[illegible]E+04	.4410[illegible]E+04	.4216[illegible]E+04	.4028[illegible]E+04	.3839[illegible]E+04
31	.3655[illegible]E+04	.3475[illegible]E+04	.3297[illegible]E+04	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.





CASE 1 ***WING FUEL DISTRIBUTION SUMMARY*** ** FDIS - IP(18) *

CELL	YIB(BP)	YOB(BP)	YIB(ST)	YOB(ST)	YCG(BP)	XCG(FS)	YCG(ST)
1	78.00	285.00	85.27	311.56	173.05	846.53	189.72
2	415.00	948.00	453.68	1036.36	628.64	1047.36	687.63

FUEL WEIGHTS--LB/SIDE

CELL	TOTAL	CAPACITY	FUEL/SYS	RHO(FL)	REQD/FL
1	34569.9	34160.0	409.9	.0372	34160.0
2	24601.7	24310.0	291.7	.0281	24310.0

FUEL CELL DISTRIBUTIONS

PANEL WEIGHTS-LB/SIDE

	CELL 1	CELL 2
TOTAL	34769.9	24767.0
1	4213.0	3919.8
2	4041.9	3522.1
3	3873.8	3180.1
4	3708.9	2855.5
5	3546.4	2548.3
6	3386.1	2258.4
7	3228.7	1986.0
8	3074.5	1730.9
9	2923.0	1493.2
10	2773.5	1272.8

FUEL CELL STATION AND WEIGHT/INCH DATA

	CELL 1.				CELL 2.			
SECT	Y(BP)	X(FS)	Y(ST)	LB/IN	SECT	Y(BP)	X(FS)	Y(ST)	LB/IN
1	78.00	803.20	85.27	189.990	1	415.00	952.05	453.68	71.088
2	98.70	812.34	107.90	182.359	2	468.30	975.60	511.95	63.455
3	119.40	821.49	130.53	174.865	3	521.60	999.14	570.22	57.437
4	140.10	830.63	153.16	167.508	4	574.90	1022.68	628.49	51.717
5	160.80	839.77	175.79	160.288	5	628.20	1046.23	686.75	46.295
6	181.50	848.92	198.42	153.145	6	681.50	1069.77	745.02	41.172
7	202.20	858.06	221.05	146.121	7	734.80	1093.31	803.29	36.347
8	222.90	867.20	243.68	139.237	8	788.10	1116.86	861.56	31.820
9	243.60	876.35	266.31	132.492	9	841.40	1140.40	919.83	27.591
10	264.30	885.49	288.94	125.841	10	894.70	1163.94	978.09	23.660
11	285.00	894.63	311.56	119.285	11	948.00	1187.49	1036.36	20.029

TOTAL FUEL PLUS FUEL SYSTEM 1-G LOADS

	TOTAL			*FUEL CELL 1*			*FUEL CELL 2*		
STA	SHEAR	B. MOM	T. MOM	SHEAR	B. MOM	T. MOM	SHEAR	B. MOM	T. MOM
1	59171.6	18449306.3	-63442.6	34569.9	3622091.2	-4252.2	24601.7	14827215.1	-20913.4
2	42521.3	13567412.6	-42223.8	17919.6	1112289.5	-2131.0.4	24601.7	12455123.1	-20913.4
3	28790.0	10152518.7	-25731.3	4188.3	694887.8	-4817.9	24601.7	10083031.0	-20913.4
4	24601.7	7710938.9	-20913.4	0.0	0.0	0.0	24601.7	7710938.9	-20913.4
5	23253.9	5348659.8	-19536.9	0.0	0.0	0.0	23253.9	5348659.8	-19536.9
6	17204.0	3389550.6	-13620.9	0.0	0.0	0.0	17204.0	3389550.6	-13620.9
7	12426.8	1965634.1	-9292.3	0.0	0.0	0.0	12426.8	1965634.1	-9292.3
8	8150.1	989980.8	-5722.8	0.0	0.0	0.0	8150.1	989980.8	-5722.8
9	4664.7	383687.2	-3071.7	0.0	0.0	0.0	4664.7	383687.2	-3071.7
10	1890.8	75456.9	-1167.0	0.0	0.0	0.0	1890.8	75456.9	-1167.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CASE 1 -**-TORQUE-BOX MATERIAL DATA. MATL NO. 6-**- ** MTLPW = IP(19)

7075-T6511 AL EXTRU. 3.0 TO 4.0 IN. MIL-HDBK-5 A DATA EST.
REF. TABLE 3.2.7.0(F) PAGE 340 2-26-72

TEMP.= 80.00 DENSITY= .1010 MU= .3300

	A	B	E	E(RT)	G(RT)
COMPRESSION	.26312595E-10	.27494493E-03	10600000.3	10500000.0	3900000.0
TENSION	.26312595E-10	.27494493E-03	10500000.3		

	EPS(P)	EPS(Y)	F(P)	F(2)	F(3)	F(4)	F(Y)
COMPRESSION	.005143	.00826R6	540 0.0	59100.0	62300.0	64450.0	66000.0
TENSION	.005143	.00826R6	54000.0	59100.0	62300.0	64450.0	66000.0

FTU= 81000.0 FSU= 45000.0 FBRU= 97000.0

FTMAX(ALLOW)--M1/2= .293 FTU FTMAX(ALLOW)--STA 2= .324 FTU

CASE 1 -**-BASIC LIMIT AIRLOAD DATA-**- ** ALOAD - IP(20) *

DGWO= 316100.0 +NZ= 2.500 -NZ= 1.000

STA	+V(LIM)	+M(LIM)	+T(LIM)	-V(LIM)	-M(LIM)	-T(LIM)
1	370442.8	158132727.8	-8245457.6	-185547.6	-61761039.3	-4334855.2
2	326989.2	124261996.3	-6999172.4	-154463.9	-45193596.4	-4453167.2
3	283161.9	94630052.5	-5814726.1	-126993.9	-31472757.8	-4565167.8
4	239356.3	69253995.1	-4703304.4	-86570.4	-22407393.2	-2248395.5
5	196147.4	48103793.2	-3678405.8	-82199.8	-14144319.0	-2392868.2
6	154039.2	31097010.0	-2749290.3	-48325.9	-9149926.6	-47970.5
7	113527.1	18102673.7	-1922292.1	-33561.6	-5185237.6	-21468.5
8	75692.5	8913238.6	-1212009.2	-21373.6	-2523080.2	-8886.8
9	41825.0	3206012.2	-631780.0	-11610.6	-923262.9	-4372.9
10	13288.1	529448.5	-149215.2	-4170.7	-157883.1	-2102.4
11	935.6	11361.4	-12488.8	-361.8	-2942.3	2617.4

TT					
1	.60000000E+01	.80000000E+02	.26312595E-10	.27494493E-03	.10500000E+08
6	.51428570E-02	.59285712E-02	.67142855E-02	.74999997E-02	.82857140E-02
11	.54000000E+05	.59100000E+05	.62300000E+05	.64450000E+05	.66000000E+05
16	.95238093E-07	.19999999E-02	.13619047E-02	.15500000E+04	.82953034E+07
21	.20997113E+00	-.27056418E+01	-.16339003E+04	.35830265E+04	.60000000E+01

-**-LOADS SCALING RATIOS-**-

	AIRLOAD RATIOS						DEADWEIGHT RATIOS					
STA	R(+V)	R(+M)	R(+T)	R(-V)	R(-M)	R(-T)	R(+V)	R(+M)	R(+T)	R(-V)	R(-M)	R(-T)
1	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000
2	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000
3	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000
4	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000
5	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000
6	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000
7	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000
8	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000
9	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000
10	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000
11	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000

-**-FLUTTER ANALYSIS DATA-**- ** GJCAL - IP(22) **

VFQ= 767.7 VFT= 80.0 VFF= 3500000.0 VFK= 1.0000 GJFAC= 1.0000

TVF

1	0.26119635E+12	-0.10E+E26E+02	0.10036E2F+07	0.1561564F+03	-0.43733276E+03
6	0.14385862E+01	0.377E94326+01	-0.15325659E+02	0.E06E2269E+01	0.19635048E+01
11	-0.14045579E+02	-0.4013848CE+01	0.59365379E+05	0.0	0.39000000E+07
16	0.43213713E+00	0.96415479E+03	0.30285034E+03	0.4432160FE+02	0.96415479E+03
21	0.30285034E+03	0.44321609E+02	0.14271799E+03	0.10000000E+01	0.96415771E+02
26	0.2410424BE+02	0.0	0.0	0.0	0.78666443E+00
31	0.1330411CE+01	0.10000000E+01	0.27206057E+00	0.7401E929E-01	0.20137087E-01
36	0.27822428E+01	0.3675651EE+01	0.E4122E37E-01	0.2140946E-01	0.72793943E+00
41	0.5E163463E+00	0.37909150E+00	0.62090E50E+00	0.47124964E+00	0.16105425E+00
46	0.90E6E896E+01	0.43016937E+00	0.1919E86E9E+00	0.E4122E37E-01	0.63254863E+04
51	0.18703960E+03	0.10000000E+01	0.10000000E+01	0.10000000E+01	0.10000000E+01
56	0.8251586EE+00	0.13017202E+01	0.10000000E+01	0.2905190SE+01	0.45138073E+00
61	0.223173331E+01	0.29253273E+01	0.5E08E4414E+01	0.5196E629E+00	0.915E7716E+00
66	0.85200005E+01	0.3381E97CE+02	0.0	0.0	0.0
71	0.11261567E+01	0.0	0.0	0.13269852E+02	0.30285034E+03
76	0.22885286E+03	0.1223E4G4E+01	0.13815224E-01	-0.33200550E+00	0.10000000E+01
81	0.99999993E-03	0.0	0.9319999?E+01	0.97100586E+00	-0.12219CE1E+02
86	-0.31165781E+01	0.10010000E+01	0.7718E1506E+00	0.EE69410EE+00	0.26476437E+00
91	0.10653257E+00	0.14E34E18E+00	0.0	0.10000000E+01	0.0
96	0.0	0.0	0.0	0.0	0.0

TGJ

1	0.3E025000E+04	0.E52000051+01	0.4175000E2E+00	0.25000000E+02	0.16329998E+00
6	0.61237001E+00	0.15534599E+03	0.10490972E+04	0.8814E897E+03	0.96415479E+03
11	0.77699997E+02	0.30285034E+03	0.44321609E+02	0.43816537E+00	0.16105425E+00
16	0.62090E50E+00	0.93213713E+00	0.47124964E+00	0.40404749E+00	0.91473744E+00
21	0.11999923E+00	0.63499892E+00	0.37750363E+00	0.90866E96E+00	0.42261791E+00
26	0.90630623E+00	0.96415479E+03	0.8E772486E+03	0.77131543E+03	0.67489600E+03
31	0.57847632E+03	0.48205664E+03	0.38563696E+03	0.28921729E+03	0.19279761E+03
36	0.96377930E+02	0.24062744E+02	0.14271799E+03	0.13469907E+03	0.12668042E+03
41	0.11866151E+03	0.11064265E+03	0.10262421E+03	0.94605560E+02	0.86586655E+02
46	0.7E56E00EE+02	0.70544CEEE+02	0.64535110E+02	0.44321609E+02	0.41045123E+02
51	0.37E68637E+02	0.34642151E+02	0.31415665E+02	0.2E189209E+02	0.24962723E+02
56	0.21736237E+02	0.1E504750E+02	0.1528326AE+02	0.1266338NE+02	0.30285034E+03
61	0.2858E447E+03	0.26EE1E36E+03	0.25160266E+03	0.23476674E+03	0.21777083E+03
66	0.20075491E+03	0.18373500E+03	0.16672307E+03	0.14970715E+03	0.13694514E+03
71	0.10000000E+01	0.7E769E0CE+03	0.34000000E+07	0.E0000000E+02	0.10000000E+01
76	0.89499998E+00	0.97EC0002E+00	0.64942352E+02	0.1E136209E+03	0.27778174E+03
81	0.37420117E+03	0.47062085E+03	0.56704053E+03	0.66346021E+03	0.75967966E+03

86	0.85629956E+03	0.9527194E+03	0.1025034E+04	0.7769999?E+02	0.1656E9E79E+03
91	0.25409758E+03	0.24226214E+02	0.43044E87E+03	0.51EE936CE+03	0.60E69235E+03
96	0.64509106E+03	0.7832E9?5E+03	0.9714E853E+03	0.9376379AE+03	0.0

-***-DESIGN GJ DATA-***-

FLUTTER DESIGN TEMP= 70.0 DEG. DESIGN G= 3900000.0 PSI
STRUCT. DESIGN TEMP= 70.0 DEG. DESIGN G= 3947369.0 PSI

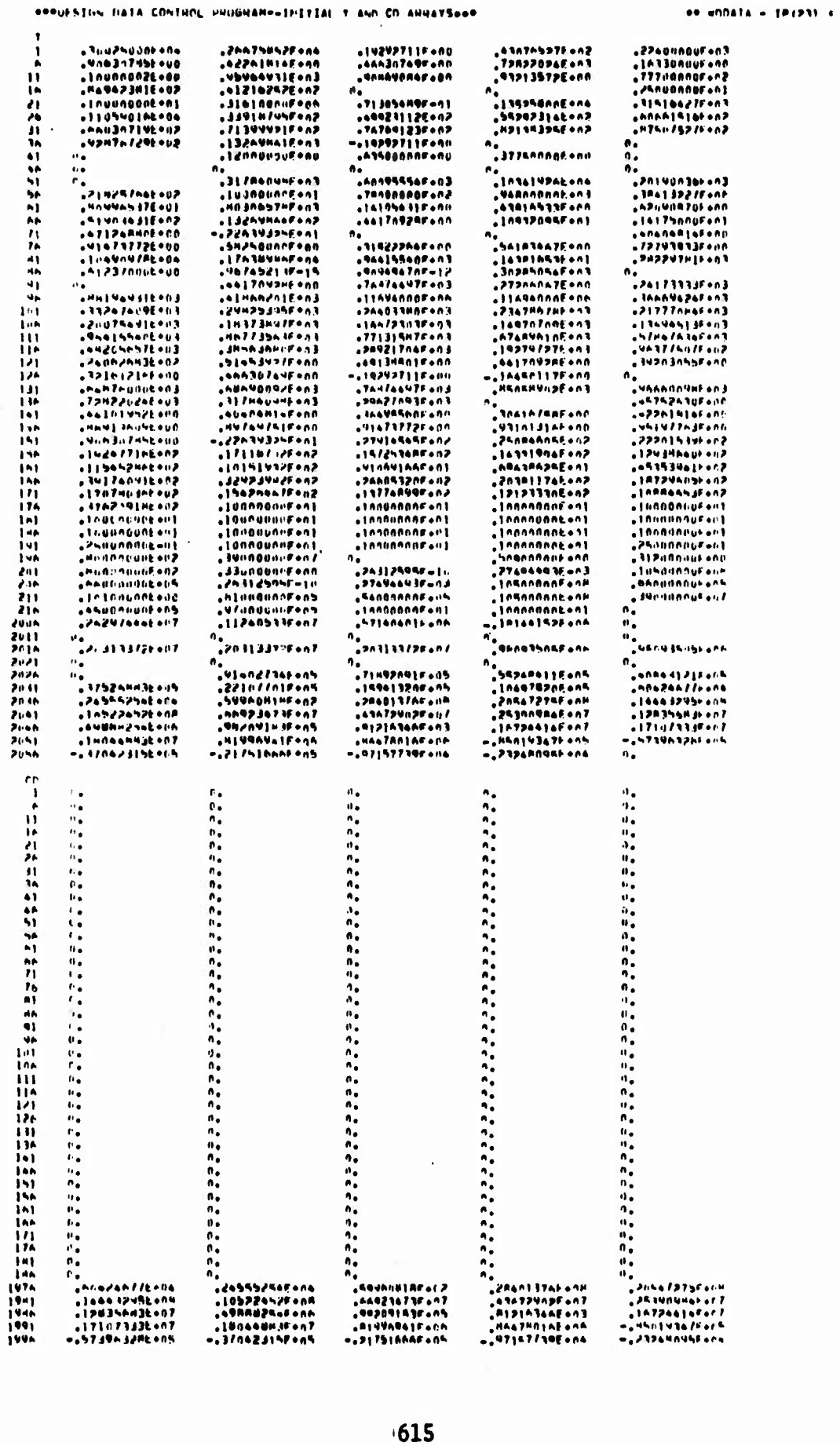
STA	GJ(REQD)	GJ(SCALED)
1	2611963499000.	2643687510CO.
2	2337255E6000.	2365E4644000.
3	2004042380CO.	2028362450CO.
4	1645362540CC.	1665246440CO.
5	1288292930CO.	1304294E60CO.
6	954175E98C0O.	965764710CO.
7	65878220806.	666783E6200.
8	41253740500.	41754796000.
9	22084419600.	22352646100.
10	8441253E9C.	854277E770.
11	1655389.0	1675495.0

CASE 1 -**-INITIAL DEADWEIGHT DISTRIBUTION DATA AT DGW(I)-**- ** ABDW - IP(21) **

DGWO= 316100.0

	****TOTAL 1-G DEADWEIGHT****			**INITIAL TORQUE-BOX**			**LE,TE,TIP,MISC CONTENTS**		
STA	SHEAR	B. MOM.	T. MOM.	SHEAR	B. MOM.	T. MOM.	SHEAR	B. MOM.	T. MOM.
1	91402.7	28395440.0	1672480.0	12153.3	4019953.0	-1.9	4461.8	1790825.0	-295456.2
2	71887.4	20541632.0	1710728.0	9625.7	2973510.0	-1.2	4124.4	1371034.0	-278377.5
3	55266.1	14438066.0	1804481.0	7521.3	2150136.0	-0.7	3238.8	1011399.9	-201118.6
4	40648.1	10517281.0	819963.4	5810.5	1510443.0	-0.7	2627.5	724523.6	-140056.0
5	37524.8	6687195.0	864776.7	4445.5	1018480.8	-0.3	2017.4	501520.1	-96619.5
6	22096.2	4362717.0	-85014.4	3320.7	645445.1	-0.0	1573.4	327741.7	-71392.5
7	15928.6	2535629.0	-57388.2	2360.2	372837.4	0.2	1141.5	197172.0	-48095.1
8	10484.8	1281378.0	-37034.1	1550.9	185447.2	0.0	783.7	105957.6	-31310.5
9	6032.0	497845.0	-21745.3	880.0	69313.7	0.0	487.3	44850.8	-18673.1
10	2449.9	97963.7	-9712.6	334.4	11725.6	0.0	224.8	10784.8	-8545.4
11	60.0	812.1	-2324.9	0.0	0.0	0.0	60.0	812.1	-2324.9

	DESIGN FUEL 1-G D.WT.			**DESIGN CONC. 1-G D.WT.**		
STA	SHEAR	B. MOM.	T. MOM.	SHEAR	B. MOM.	T. MOM.
1	59171.6	18449248.0	-63444.2	15616.0	4135433.0	2031334.0
2	42521.3	13567364.0	-42225.4	15616.0	2629743.0	2031334.0
3	28790.0	10152475.0	-25732.5	15616.0	1124054.0	2031334.0
4	24601.7	7710908.0	-20914.3	7808.0	571407.7	980934.4
5	23253.9	5348633.0	-19537.8	7808.0	-181437.1	980934.4
6	17204.1	3389531.0	-13822.0	0.0	0.0	0.0
7	12426.8	1965620.0	-9293.3	0.0	0.0	0.0
8	8150.1	989971.6	-5723.6	0.0	0.0	0.0
9	4664.7	363680.5	-3072.3	0.0	0.0	0.0
10	1890.8	75453.3	-1167.2	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0



CASE 1 ---BASIC LIMIT AIRLOAD DATA--ADV COMPOSITE ANALYSIS--- ** ACLOAD - [illegible]

COND	TOGW	OGW	DEL-FL	DEL-HL	NZ	TEMP	RHO	MFL1	MFL2	MCOL1	MCOL2
60117.0	318000.0	316100.0	1900.0	0.0	2.500	95.3	1.0000	1.0000	1.0000	1.0000	1.0000
60317.0	318000.0	316100.0	1900.0	0.0	2.500	80.0	1.0000	1.0000	1.0000	1.0000	1.0000
60617.0	318000.0	316100.0	1900.0	0.0	-1.000	92.7	1.0000	1.0000	1.0000	1.0000	1.0000
60817.0	318000.0	318000.0	0.0	0.0	2.000	80.0	1.0000	1.0000	1.0000	1.0000	1.0000
61017.0	318000.0	316100.0	1900.0	0.0	2.672	92.7	1.0000	1.0000	1.0000	1.0000	1.0000
61117.0	318000.0	316100.0	1900.0	0.0	2.803	80.0	1.0000	1.0000	1.0000	1.0000	1.0000
61417.0	318000.0	316100.0	1900.0	0.0	-.672	92.7	1.0000	1.0000	1.0000	1.0000	1.0000
61517.0	318000.0	316100.0	1900.0	0.0	-.803	80.0	1.0000	1.0000	1.0000	1.0000	1.0000
61817.0	318000.0	316100.0	1900.0	0.0	1.000	92.7	1.0000	1.0000	1.0000	1.0000	1.0000
61917.0	318000.0	316100.0	1900.0	0.0	1.000	80.0	1.0000	1.0000	1.0000	1.0000	1.0000
62017.0	318000.0	316100.0	1900.0	0.0	1.250	95.3	1.0000	1.0000	1.0000	1.0000	1.0000
62117.0	318000.0	316100.0	1900.0	0.0	1.250	80.0	1.0000	1.0000	1.0000	1.0000	1.0000
62217.0	318000.0	316100.0	1900.0	0.0	1.000	95.3	1.0000	1.0000	1.0000	1.0000	1.0000
62317.0	318000.0	316100.0	1900.0	0.0	1.000	80.0	1.0000	1.0000	1.0000	1.0000	1.0000

---DESIGN LOADS SUMMARY--ACL ARRAY--- ** ACLOAD - [illegible]

ACL						
1	354885.8	312629.6	274178.6	227917.8	184411.7	144171.1
7	107690.0	71941.3	39948.8	12778.7	804.5	1547427[illegible]49.5
13	11493249[illegible]16.2	900208[illegible]80.4	6583[illegible]64.3	4670[illegible]80.4	29557122.8	17228[illegible]8A.8
19	850[illegible]12.8	3070[illegible]79.9	509[illegible]74.3	100[illegible]1.4	2907[illegible]26.7	2462[illegible]61.5
25	2040[illegible]67.9	1[illegible]46[illegible]42.8	128[illegible]47.0	05[illegible]41.5	[illegible]69A94.1	42[illegible]28.3
31	221631.2	66854.9	4435.7	[illegible]70442.8	32[illegible]89.2	28[illegible]61.9
37	239356.3	196147.4	154039.2	113527.1	75[illegible]92.5	41825.0
43	13288.1	935.8	158132727.8	12[illegible]61994.3	9[illegible]3[illegible]52.5	40[illegible]3995.1
49	48103793.2	31097010.0	18[illegible]9673.7	8[illegible]3[illegible]8.4	7[illegible]12.2	52[illegible]8.5
55	11361.4	-8245657.6	-6999172.4	-5[illegible]4[illegible].1	-4[illegible]3[illegible]4.4	-3[illegible]405.8
61	-2749290.3	-1922292.1	-1212009.2	-[illegible]317[illegible].0	-180215.2	-12[illegible]8.8
67	-141729.5	-124844.9	-107883.7	-91000.2	-74821.1	-58352.0
73	-42994.4	-28727.1	-15959.9	-5108.5	-761.8	-[illegible]191255.4
79	-[illegible]7265088.9	-359[illegible]460.5	-26283[illegible]61.4	-18[illegible]501[illegible]0.7	-11[illegible]0[illegible]76.5	-[illegible]88[illegible]192.1
85	-3397044.1	-1226824.5	-203[illegible]39.2	-[illegible]392.2	-12[illegible]645.2	-10[illegible]751.8
91	-900570.0	-726581.1	-56[illegible]51.0	-422[illegible]30.7	-29[illegible]683.4	-18[illegible]91.4
97	-97861.1	-29439.8	-1960.9	299152.4	25[illegible]20.1	21[illegible]69.2
103	166829.6	122[illegible]8.5	[illegible]0718.6	46[illegible]57.4	29[illegible]95.7	[illegible]695.7
109	1974.8	112.5	10400[illegible]270.3	76[illegible]0292.2	5[illegible]997[illegible]8.8	35[illegible]8059.5
115	21520172.1	11[illegible]6758.2	548[illegible]250.7	2[illegible]20[illegible]25.1	59[illegible]603.8	77390.8
121	1365.5	-5665797.2	-4751[illegible]45.8	-[illegible]801[illegible]9.0	-29[illegible]0546.1	-20[illegible]63[illegible].2
127	-1373289.4	-813232.0	-[illegible]21161.8	-[illegible]A7944.7	-[illegible]7798.2	-[illegible]96[illegible].9
133	321260.5	282987.9	244541.5	204271.5	16[illegible]491.4	132267.5
139	97456.1	65116.1	34176.6	11579.5	[illegible]20.0	13[illegible]4[illegible]40.6
145	107091161.6	81471733.4	59578[illegible]30.9	4[illegible]3679[illegible]6.7	24751[illegible]43.0	15[illegible]5[illegible]43[illegible].7
151	7700132.0	2780[illegible]61.9	[illegible]81592.2	9055.9	2[illegible]09[illegible]04.8	24[illegible]3357.0
157	2041335.9	1[illegible]46952.5	128[illegible]89.9	05[illegible]476.8	66[illegible]77A.8	[illegible]21[illegible]76.2
163	221823.2	6695[illegible].2	[illegible]444.8	[illegible]67[illegible]82.5	32[illegible]731.8	2[illegible][illegible]094.2
169	236560.3	193697.1	152004.7	111[illegible]74.7	74[illegible]54.7	41275.0
175	13170.6	925.2	15[illegible]32[illegible]731.8	12[illegible]27[illegible]03.4	9[illegible]3[illegible]54[illegible]54.4	[illegible]83[illegible]67.5
181	47667969.3	30[illegible]78965.0	1785[illegible]24.3	[illegible]7951[illegible]1.2	7[illegible][illegible]63.7	52[illegible]052.5
187	11232.9	-2118634.6	-[illegible]79[illegible]83.7	-[illegible]490[illegible]23.9	-12[illegible]740.1	-[illegible]11[illegible]13.1
193	-702954.3	-[illegible]91225.4	-[illegible]09[illegible]04.3	-[illegible]41525.5	-[illegible]8[illegible]27.8	-[illegible]199.1
199	-37[illegible]1.4	-33[illegible]9[illegible].1	-2[illegible]774.2	-24271.1	-[illegible]849.2	-15563.4
205	-11467.3	-7[illegible]2.0	-[illegible]256.8	-[illegible]362.5	-[illegible]96.5	-1[illegible]0[illegible]3929.3
211	-12[illegible]09[illegible]7.9	-9586[illegible]52.4	-701[illegible]308.2	-[illegible]867[illegible]05.3	-3[illegible][illegible]793.9	-[illegible]835[illegible]52.6
217	-[illegible]06063.7	-327[illegible]12.9	-56313.7	-[illegible]171.5	-34[illegible]916.5	-28[illegible]853.3
223	-240[illegible]05.8	-193[illegible]90.3	-151[illegible]87.8	-112775.4	-7[illegible]809.0	-[illegible]0793.4
229	-26[illegible]1.0	-7[illegible]78.7	-523.0	-[illegible]4[illegible]90.1	-67[illegible]33.3	-5[illegible]51[illegible].7
235	-49621.7	-[illegible]0466.8	-31758.5	-23[illegible]03.5	-1[illegible][illegible]9[illegible].7	-[illegible]623.1
241	-2762.4	-193.3	-32[illegible][illegible]883.9	-25[illegible][illegible]825.8	-10[illegible]24[illegible]58.3	-14[illegible]82337.1
247	-99[illegible]908.4	-6[illegible]09[illegible]87.6	-3731029.6	-[illegible]A37[illegible]71.5	-[illegible]61[illegible]38.7	-[illegible]09275.1
253	-2[illegible]46.7	[illegible]42620.9	[illegible]74317.8	3[illegible]14[illegible]0.8	25[illegible]491.0	[illegible]94657.2
259	146859.8	102625.8	[illegible]4700.7	33745.6	[illegible]0117.4	[illegible]68.4
571	0.0	0.0	0.0	0.0	0.0	0.0
577	0.0	0.0	0.0	0.0	0.0	0.0
583	0.0	0.0	0.0	0.0	0.0	0.0
589	0.0	0.0	0.0	0.0	0.0	0.0
595	0.0	0.0	0.0	0.0	0.0	0.0
601	0.0	0.0	0.0	0.0	0.0	0.0
607	0.0	0.0	0.0	0.0	0.0	0.0
613	0.0	0.0	0.0	0.0	0.0	0.0
619	0.0	0.0	0.0	0.0	0.0	0.0
625	0.0	0.0	0.0	0.0	0.0	0.0
631	0.0	0.0	0.0	0.0	0.0	0.0
637	0.0	0.0	0.0	0.0	0.0	0.0
643	0.0	0.0	0.0	0.0	0.0	0.0
649	0.0	0.0	0.0	0.0	0.0	0.0
655	0.0	0.0	0.0	0.0	0.0	0.0

CASE 1 -**-TORQUE-BOX MATERIAL DATA--ADV. COMPOSITE DESIGN-**- ** TEMPC = TP(12) (

LOAD ID	TEMP.	EL	ET	GXY	NUXY	FTU	FCU	FSU
1	95.3	30000000.0	2541218.5	663223.0	.2098	-16045 1.8	389119.2	67000.0
2	80.0	30000000.0	2640600.0	680400.0	.2092	-161280.0	392800.0	67000.0
3	92.7	30000000.0	2558332.6	666180.9	.2097	-160594.4	389753.1	67000.0
4	80.0	30000000.0	2640600.0	680400.0	.2092	-161280.0	392800.0	67000.0
5	92.7	30000000.0	2558332.6	666180.9	.2097	-160594.4	389753.1	67000.0
6	80.0	30000000.0	2640600.0	680400.0	.2092	-161280.0	392800.0	67000.0
7	92.7	30000000.0	2558332.6	666180.9	.2097	-160594.4	389753.1	67000.0
8	80.0	30000000.0	2640600.0	680400.0	.2092	-161280.0	392800.0	67000.0
9	92.7	30000000.0	2558332.6	666180.9	.2097	-160594.4	389753.1	67000.0
10	80.0	30000000.0	2640600.0	680400.0	.2092	-161280.0	392800.0	67000.0
11	95.3	30000000.0	2541218.5	663223.0	.2098	-160451.8	389119.2	67000.0
12	80.0	30000000.0	2640600.0	680400.0	.2092	-161280.0	392800.0	67000.0
13	95.3	30000000.0	2541218.5	663223.0	.2098	-160451.8	389119.2	67000.0
14	80.0	30000000.0	2640600.0	680400.0	.2092	-161280.0	392800.0	67000.0

LOAD ID	ENU(1)	ENU(2)	ENU(3)	ENU(4)	ENU(5)	ENX(1)	ENX(2)	ENX(3)	E(ROT)
1	30112277.4	2550729.2	535153.6	9096551.4	777o105.5	3891.2	-1604.5	1340.0	873922R.4
2	30115967.3	2650807.4	554442.9	9149315.1	778R515.1	3928.0	-1612.8	1340.0	R923R43.9
3	30112916.5	2567961.9	538484.2	9105642.6	777a280.7	3897.5	-1605.9	1340.0	R771218.1
4	30115967.3	2650807.4	554442.9	9149315.1	778R515.1	3928.0	-1612.8	1340.0	R923R43.9
5	30112916.5	2567961.9	538484.2	9105642.6	777a280.7	3897.5	-1605.9	1340.0	R771218.1
6	30115967.3	2650807.4	554442.9	9149315.1	778R515.1	3928.0	-1612.8	1340.0	R923R43.9
7	30112916.5	2567961.9	538484.2	9105642.6	777a280.7	3897.5	-1605.9	1340.0	R771218.1
8	30115967.3	2650807.4	554442.9	9149315.1	778R515.1	3928.0	-1612.8	1340.0	R923R43.9
9	30112916.5	2567961.9	538484.2	9105642.6	777a280.7	3897.5	-1605.9	1340.0	R771218.1
10	30115967.3	2650807.4	554442.9	9149315.1	778R515.1	3928.0	-1612.8	1340.0	R923R43.9
11	30112277.4	2550729.2	535153.6	9096551.4	777o105.5	3891.2	-1604.5	1340.0	873922R.4
12	30115967.3	2650807.4	554442.9	9149315.1	778R515.1	3928.0	-1612.8	1340.0	R923R43.9
13	30112277.4	2550729.2	535153.6	9096551.4	777o105.5	3891.2	-1604.5	1340.0	873922R.4
14	30115967.3	2650807.4	554442.9	9149315.1	778R515.1	3928.0	-1612.8	1340.0	R923R43.9

-**-ENUC PROPERTIES FOR STIFFNESS CALCULATIONS-**-

ITEM	TEMP.	EL	GXY	ENUC(1)	ENUC(2)	ENUC(3)	ENUC(4)	ENUC(5)	ENUC(6
ST. REF.	80.0	30000000.0	680400.0	30115967.3	2650807.4	554442.9	9149315.1	778R515.1	7574272.
FLUT. REF.	80.0	30000000.0	680400.0	30115967.3	2650807.4	554442.9	9149315.1	778R515.1	7574272.
FLUT/OPTM.	80.0	30000000.0	680400.0	30115967.3	2650807.4	554442.9	9149315.1	778R515.1	7574272.
FLEX/LOADS	80.0	30000000.0	680400.0	30115967.3	2650807.4	554442.9	9149315.1	778R515.1	7574272.

** DWYHA - IP(24) *

CASE 1 ---DEADWEIGHT AND Y-MOM ADJUSTMENT DATA---

IG=2 NOU=4 DUM= 316100.0 DGWRI= 0.00000

STA	DEPT(A)	YHU(A)	YSU(D)	YHL(A)	YHL(D)	TH-W/IN	TH-M(A)	TH-M(D)	MA(D)
1	42.4513	.3126	.3126	.3126	.3126	24.2972	3711278.0	3711278.0	25007.9
2	37.5007	.3093	.3093	.3093	.3093	22.1053	2746186.6	2746186.6	24561.8
3	32.6750	.3029	.3029	.3029	.3029	18.1934	1985037.1	1985037.1	23065.3
4	27.3661	.2889	.2889	.2889	.2889	14.5809	1396660.5	1396660.5	21664.2
5	22.9709	.2771	.2771	.2771	.2771	11.5868	960273.4	960273.4	20010.7
6	21.1327	.2610	.2610	.2610	.2610	9.4523	595882.0	595882.0	14928.4
7	19.2841	.2076	.2076	.2076	.2076	8.4618	344207.2	344207.2	10222.9
8	17.4396	.1771	.1771	.1771	.1771	7.0555	171206.5	171206.5	5928.6
9	15.5509	.1662	.1662	.1662	.1662	5.7931	63990.9	63990.9	2686.8
10	13.9404	.1662	.1662	.1662	.1662	4.8549	10825.1	10825.1	451.3
11	12.2076	.1662	.1662	.1662	.1662	3.8826	0.0	0.0	17.7

** DWYHA - IP(24) *

STA	THU(N)	YHL(N)	DL-W/IN	TH-M(N)
1	.3125	.3125	-.0104	3729884.0
2	.3092	.3092	-.0076	2758154.0
3	.3029	.3029	-.0044	1992693.3
4	.2888	.2888	-.0024	1398177.2
5	.2771	.2771	-.0007	961206.5
6	.2610	.2610	0.0000	595882.0
7	.2076	.2076	0.0000	344207.2
8	.1771	.1771	0.0000	171206.5
9	.1662	.1662	0.0000	63990.9
10	.1662	.1662	0.0000	10825.1
11	.1662	.1662	0.0000	0.0

** DEADW - IP(24) *

---DEADWEIGHT ADJUSTMENT RESULTS---

IG=2 NOU=4 DUM= 316100.0

STA	TR(V)	TR(M)	TH(I)	TRWPI	VFWPI	TMWPI	TDWPI	THCMT	W-DIST	Id-DIST
1	11278.0	3729884.3	.0	24.2972	0.0000	0.0000	0.0000	0.00	2333.68	2333.68
2	8466.5	2758288.3	.0	22.1053	0.0000	0.0000	0.0000	0.00	1962.80	1962.80
3	7001.7	1992536.2	.0	18.1934	0.0000	0.0000	0.0000	0.00	1579.08	1579.08
4	5393.7	1398186.9	.0	14.5809	0.0000	0.0000	0.0000	0.00	1240.58	1240.58
5	4133.1	961207.5	.0	11.5868	0.0000	0.0000	0.0000	0.00	1038.40	1038.40
6	3045.7	595882.0	.0	9.4523	0.0000	0.0000	0.0000	0.00	884.78	884.78
7	2178.9	344207.2	.0	8.4618	0.0000	0.0000	0.0000	0.00	747.12	747.12
8	1431.8	171206.5	.0	7.0555	0.0000	0.0000	0.0000	0.00	619.63	619.63
9	812.6	63990.9	.0	5.7931	0.0000	0.0000	0.0000	0.00	503.70	503.70
10	308.7	10825.1	.0	4.8549	0.0000	0.0000	0.0000	0.00	308.70	308.70
11	0.0	0.0	0.0	3.8826	0.0000	0.0000	0.0000	0.00		

** VLOAD - IP(24) *

CASE 1 ---DESIGN LOADS/1000 AND REQD GJ/1,000,000---

IG=2 NOU=4 IOPI=0 DUM= 316100.0

STA	+V(ULT)	+M(ULT)	+T(ULT)	-V(ULT)	-M(ULT)	-T(ULT)	VDW(1G)	MDW(1G)	TDW(1G)	GJ(REQD)
1	212.859	130594.07	-18374.95	-278.321	-82641.54	-4502.28	91.415	28628.01	1403.14	220074.816
2	220.558	109270.49	-18699.41	-231.696	-67790.39	-4679.75	71.980	20586.00	1453.56	194936.022
3	217.297	87736.04	-15349.50	-190.491	-47209.14	-4867.75	55.319	14455.74	1707.31	168866.926
4	205.779	66385.52	-10032.43	-129.856	-33811.09	-3372.59	40.868	10532.13	791.99	138647.713
5	153.309	47034.82	-8682.10	-123.300	-21216.48	-3589.30	37.577	6698.90	863.87	104543.437
6	148.116	30252.23	-3750.17	-72.489	-13726.89	-71.96	22.118	4371.54	-99.67	80411.096
7	110.663	17020.35	-2028.70	-50.362	-7777.86	-32.20	15.954	2542.71	-67.93	55521.247
8	74.112	8550.40	-1652.18	-32.060	-3784.62	-13.33	10.514	1285.19	-44.23	36770.288
9	40.055	2935.67	-852.15	-17.416	-1384.89	-6.56	6.049	499.54	-25.67	18615.443
10	10.715	424.77	-242.24	-6.256	-236.82	-3.15	2.458	98.51	-11.08	7116.106
11	1.159	13.83	-9.24	-.441	-4.41	3.93	.065	.86	-2.53	1.196

CASE 1 **SIGN LOAD≤1000 AND MEAN GJ≥1,000,000**

LOAD NUMBER IMPACT DATA RECORD

STA	+V(KLT)	+M(KLT)	+T(KLT)	-V(KLT)	-M(KLT)	-T(KLT)	VMR(IG)	MIN(IG)	THR(IG)	GJ(MEAN)
1	212.853	130677.28	-1NA39.00	-273.566	-9.879.47	-A-16.12	91.61A	2A6A5.42	1A72.66	23948.3A
2	220.437	109328.97	-16916.01	-227.426	-AA279.01	-A858.21	71.9A6	20550.01	1710.73	21A456.9A6
3	217.636	87775.97	-15688.02	-147.887	-69871.7A	-4891.88	55.282	16665.18	1500.60	146A53.A01
4	205.A2A	66618.03	-10129.00	-127.A56	-37A02.06	-3A80.71	40.855	12523.45	A14.07	1A1110.868
5	193.000	47058.56	-A7A0.53	-121.681	-20852.72	-3A72.5A	37.536	8A02.57	A06.78	114317.37A
6	168.156	30208.18	-3A05.11	-7A.782	-13345.24	-12A.7A	22.108	4A47.29	-85.02	87A32.12A
7	110.511	17032.30	-20AA.20	-69.121	-7AA8.41	-89.36	15.961	2539.16	-57.60	A0502.[illegible]
8	76.172	8556.68	-1A79.11	-31.267	-1A78.83	-35.0A	10.698	1283.57	-37.A6	17887.A35
9	66.074	2435.21	-AAA.1[illegible]	-1A.986	-1366.71	-15.A9	A.[illegible]67	69A.48	-21.75	2A282.6A6
10	10.726	425.A8	-267.3A	-A.1A3	-278.5A	-A.9A	2.6[illegible]A	98.21	-A.72	7763.A22
11	1.179	16.00	-10.02	-.A31	-7.81	.65	.0000	.41	-.32	1.520

CONF. NO. A0117.0

STA	V(KLT)	M(KLT)	T(KLT)	STA	V(KLT)	M(KLT)	T(KLT)
1	1A531[illegible].A	11A502207.0	-1A10515.1	2	19[illegible]47.A	1A0A33307.1	-272215[illegible].A
3	197A59.3	A04A2210.7	-37[illegible]129.6	A	1[illegible]A[illegible].A	6928373A.1	-A05221.1
5	17A885.5	63AA8322.5	-1[illegible]965.1	A	13A352.7	3706[illegible]65.A	1756[illegible].A
7	1[illegible]A.1	1A32[illegible].2	1219727.6	A	A[illegible].1	706[illegible]8.1	773[illegible].7
9	3728[illegible].9	2736[illegible].3	61A01[illegible].A	10	9[illegible].0	398777.0	1A71[illegible].A
11	1131.4	1362A.A	15371.A				

CONF. NO. A0317.0

STA	V(KLT)	M(KLT)	T(KLT)	STA	V(KLT)	M(KLT)	T(KLT)
1	212A53.3	130A77[illegible].5	-1[illegible]A61.A	2	22[illegible]7.0	1A[illegible]3.3	-1A91[illegible].A
3	21761[illegible].3	A777A9[illegible].9	-15[illegible]A30.3	A	2A58[illegible].A	6A61[illegible].2	-10120[illegible].9
5	1A36[illegible]	A[illegible]85[illegible].A	-A7[illegible]536.6	A	1A915[illegible].A	3[illegible]A617.7	-1[illegible]112.9
7	11A51[illegible].7	17A3[illegible]91.5	-6[illegible]2[illegible].6	A	7A171.A	A56A[illegible].7	-16[illegible]105.1
9	A[illegible]A.2	243[illegible].A	-[illegible]A1.2	10	13726.A	6[illegible].3	-2[illegible].7
11	117.A	1399.5	-1[illegible].2				

CONF. NO. A0417.0

STA	V(KLT)	M(KLT)	T(KLT)	STA	V(KLT)	M(KLT)	T(KLT)
1	-A7A7.3	-A7A78[illegible].A	5[illegible]6.3	2	-7A6[illegible].7	-A[illegible]2[illegible].6	9[illegible].2
3	-7A96.1	-3726[illegible].7	1[illegible]77.6	A	-7A2[illegible].7	-3[illegible]A7.1	1[illegible].5
5	-5[illegible].A	-1731[illegible].9	A[illegible].7	A	-6[illegible].5	-11[illegible].6	-7[illegible].3
7	-[illegible].5	-85[illegible].5	-[illegible].6	A	-2736[illegible].A	-3[illegible].7	-3[illegible].6
9	-1[illegible].2	-1[illegible].0	-1[illegible].1	10	-307[illegible].6	-156[illegible].1	-5[illegible].3
11	-65[illegible]	-53[illegible].1	-6[illegible].6				

CONF. NO. A0617.0

STA	V(KLT)	M(KLT)	T(KLT)	STA	V(KLT)	M(KLT)	T(KLT)
1	17A67[illegible].4	7[illegible]63.A	-1[illegible]A30.1	2	1723[illegible].2	53[illegible]26.5	-122[illegible].5
3	1[illegible]7.1	3[illegible]A6.0	-[illegible]5A3.6	A	1276[illegible].2	2175[illegible].5	-A[illegible]727.7
5	7[illegible].1	122[illegible].6	-5[illegible]907.9	A	567[illegible].A	6A[illegible].A	-1[illegible].6
7	221[illegible].1	A1[illegible].A	-1[illegible].6	A	25[illegible].7	-6[illegible].2	-92[illegible].A
9	-6[illegible].6	-A[illegible].9	-2[illegible].8	10	-6676.A	-17[illegible].6	-62[illegible].7
11	-11.6	-39[illegible]	2[illegible].1				

CONF. NO. A1017.0

STA	V(KLT)	M(KLT)	T(KLT)	STA	V(KLT)	M(KLT)	T(KLT)
1	1A24[illegible].1	9A3[illegible].1	-1[illegible].0	2	1579[illegible].0	6A[illegible].A	-2[illegible].A
3	1A17[illegible].2	AA[illegible].1	-3A3[illegible].7	A	1579A7.6	6A33[illegible].A	-97[illegible].A
5	113A[illegible].7	3723[illegible].9	-1[illegible].2	A	11A6[illegible].1	3393[illegible].5	175[illegible].2
7	A[illegible].1	1397A3[illegible].1	1217531.7	A	587[illegible].7	A7[illegible].A	77[illegible].A
9	1[illegible].1	232[illegible].A	613[illegible].5	10	82A2.7	32[illegible].5	1A[illegible].3
11	10[illegible]	11921.A	1824.2				

CONF. NO. A1117.0

STA	V(KLT)	M(KLT)	T(KLT)	STA	V(KLT)	M(KLT)	T(KLT)
1	1A[illegible].A	115[illegible].A	-1[illegible].9	2	1A33[illegible].A	577[illegible].5	-[illegible].3
3	1577[illegible].7	7[illegible].A	-[illegible].3	A	1[illegible].A	5[illegible].1	-5[illegible].A
5	1[illegible].5	-1[illegible].A	-[illegible].1	A	135[illegible].7	57[illegible].A	-[illegible].3
7	1[illegible].7	1A[illegible].A	-[illegible].5	A	A[illegible].1	77[illegible].A	-3[illegible].A
9	1[illegible].1	265[illegible].3	-1[illegible].A	10	93A7.1	171[illegible].2	-1[illegible].7
11	113.7	136.A	6[illegible].A				

CONF. NO. A1217.0

STA	V(KLT)	M(KLT)	T(KLT)	STA	V(KLT)	M(KLT)	T(KLT)
1	[illegible].A	-3[illegible].1	A[illegible].A	2	1[illegible]3.	-A[illegible].A	7[illegible].1
3	-19[illegible].1	-9[illegible].A	2[illegible].A	A	-7A[illegible].2	-3[illegible].A	2[illegible].1
5	-11[illegible].1	-25[illegible].1	1[illegible].7	A	-7A77.2	-1A[illegible].7	-22[illegible].A
7	-[illegible].1	-3[illegible].1	-1[illegible].5	A	-[illegible].1	-A[illegible].1	-1[illegible].A
9	-[illegible].2	-13[illegible].A	-A[illegible].1	10	-[illegible].5	-11[illegible].A	-1[illegible].A
11	-.[illegible].2	-11[illegible].A	-2[illegible].1				

CONF. NO. A1317.0

STA	V(KLT)	M(KLT)	T(KLT)	STA	V(KLT)	M(KLT)	T(KLT)
1	-A[illegible].A	-1A7[illegible].7	2A77A6[illegible].1	2	-1A[illegible].[illegible]	-13736[illegible].A	2A2[illegible].A
3	-21[illegible].5	-11[illegible].A	2A[illegible].A	A	-7A[illegible].[illegible]	-A[illegible].3	1[illegible].7
5	-1[illegible].[illegible]	-A[illegible].7	1[illegible].1	A	-21[illegible].[illegible]	-6[illegible].7	11[illegible].5
7	-16[illegible].A	-25[illegible].7	A[illegible].7	A	-13[illegible].3	-121[illegible].3	5[illegible].A
9	-A[illegible].A	-19[illegible].5	2[illegible].7	10	-11[illegible].3	-A[illegible].7	3[illegible].A
11	-21[illegible].7	-2[illegible].3	-1[illegible].A				

CD					
1	.5797A029E+12	.38406913F+12	.26811A82F+12	.20536337F+12	.12807248F+12
6	.A1691380E+11	.5847793bF+11	.37263350F+11	.21564641E+11	.90970016E+10
11	.29306580E+10	.80702322F+12	.59265616F+12	.42159522F+12	.24987055F+12
16	.1532665BE+12	.10774330F+12	.69789048E+11	.41342922F+11	.24996803E+11
21	.14079887E+11	.65251516F+10	.55751424E+07	.51929567F+07	.5099991BE+07
26	.5968828BE+07	.60651960F+07	.5669228BE+07	.5080098BF+07	.60474703F+07
31	.59504071E+07	.49348168F+07	.38355326E+07	.16053664F+08	.16681746E+08
36	.17099361E+08	.15787075E+08	.15701327E+08	.16383979F+08	.15919094E+08
41	.15287140E+08	.15114062F+08	.16046752E+08	.16066496F+08	.5797B029E+12
46	.38406913E+12	.26811882E+12	.20536337E+12	.12807248F+12	.A9368004E+11
51	.63749443E+11	.40180635F+11	.21564641E+11	.90970016F+10	.29306580E+10
56	.80702322E+12	.59265616F+12	.42159522E+12	.24987055F+12	.15326658E+12
61	.21039919E+12	.96822793E+11	.43559568E+11	.24996803E+11	.14079887E+11
66	.65251516E+10	.55751424E+07	.51929567E+07	.50999918F+07	.5968B288E+07
71	.60651960E+07	.58774202F+07	.61315580E+07	.60837971E+07	.59504071E+07
76	.49348168E+07	.38355326E+07	.16053664E+08	.16681746E+08	.17099361E+08
81	.15787075E+08	.15701327F+08	.12649718E+08	.12047953F+08	.11834563E+08
86	.15114062E+08	.16046752E+08	.16066496E+08	.5797B029F+12	.38406913E+12
91	.26811882E+12	.20536337F+12	.12807248E+12	.A9368004F+11	.63749443E+11
96	.40180635E+11	.21564641E+11	.90970016E+10	.29306580F+10	.80702322E+12
101	.59265616E+12	.42159522E+12	.24987055E+12	.15326658E+12	.21039919E+12
106	.96822793E+11	.43559568F+11	.24996803E+11	.14079887E+11	.65251516E+10
111	.55751424E+07	.51929567F+07	.50999918E+07	.5968B288E+07	.60651960E+07
116	.58774202E+07	.61315580F+07	.60837971E+07	.59504071F+07	.49348168E+07
121	.38355326E+07	.16053664F+08	.16681746E+08	.17099361F+08	.15787075E+08
126	.15701327E+08	.12649718F+08	.12047953E+08	.11834563F+08	.15114062E+08
131	.16046752E+08	.16066496F+08	.5797B029E+12	.38406913F+12	.26811882E+12
136	.20536337E+12	.12807248E+12	.A1691380E+11	.5847793bF+11	.37263350E+11
356	.20536337E+12	.12807248E+12	.A1691380E+11	.5847793bF+11	.37263350E+11
361	.21564641E+11	.90970016F+10	.29306580E+10	.80702322F+12	.59265616E+12
366	.42159522E+12	.24987055E+12	.15326658E+12	.10774330E+12	.6978904BE+11
371	.41342922E+11	.24996803F+11	.14079887E+11	.65251516F+10	.55751424E+07
376	.51929567E+07	.50999918E+07	.5968B288E+07	.60651960F+07	.5669228BE+07
381	.59809881E+07	.60474703F+07	.59504071E+07	.49348168F+07	.38355326E+07
386	.16053664E+08	.16681746F+08	.17099361F+08	.15787075F+08	.15701327E+08
391	.16383979E+08	.15919094F+08	.15287140E+08	.15114062F+08	.16046752E+08
396	.16066496E+08	0.	0.	0.	0.

```
0001C                ***SECTION DESIGN DATA***                                  ** ACNSTR -
    1  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01
    6  .1000000E+01  .1000000E+01  .1000000E+01  .1000000E+01  .1000000E+01
   11  .1000000E+01  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01
   16  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01
   21  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01
   26  .1973620E+05  .1973620E+05  .1736466E+05  .9481540E+04  .5647904E+04
   31  .2308850E+04  .4187305E+03  .1432731E+02  -.1514000E+04  -.1451678E+04
   36  -.1454000E+04  -.1537031E+04  -.1498340E+04  -.8476307E+03  -.7262140E+03
   41  -.5561150E+03  -.3534180E+03  -.1283337E+03  -.6356080E+01  .2825353E+04
   46  .2534320E+04  .2080916E+04  .1584592E+04  .1060316E+04  .7140216E+03
   51  .5027820E+03  .1893678E+03  .8098474E+04  .1207174E+04  .1078277E+03
   56  -.5084831E+04  -.5894850E+04  -.7134855E+04  -.8446290E+04  -.7719769E+04
   61  -.6548653E+04  -.6271877E+04  -.3987891E+04  -.3216527E+04  -.1404172E+04
   66  -.1270815E+03  .4000000E+01  .4000000E+01  .4000000E+01  .4000000E+01
   71  .4000000E+01  .4000000E+01  .4000000E+01  .4000000E+01  .4000000E+01
   76  .4000000E+01  .4000000E+01  .5200000E+02  .4000000E+02  .4000000E+02
   81  .4000000E+02  .3600010E+02  .3200000E+02  .2800000E+02  .2400000E+02
   86  .1600000E+02  .8000000E+01  .4000000E+01  .4000000E+01  .4000000E+01
   91  .4000000E+01  .4000000E+01  .4000000E+01  .2000000E+01  .2000000E+01
   96  .2000000E+01  .2000010E+01  .2000000E+01  .2000000E+01  0.
  101  0.  0.  0.  0.  0.
  106  0.  0.  0.  0.  0.
  111  0.  0.  0.  0.  0.
  116  0.  0.  0.  0.  0.
  121  0.  .3000000E+00  .2800000E+00  .2600000E+00  .2400000E+00
  126  .2200000E+00  .2000000E+00  .1700000E+00  .1400000E+00  .1100000E+00
  131  .8000000E-01  .5000000E-01  .3694710E+00  .3294464E+00  .3138757E+00
  136  .2936041E+00  .2741800E+00  .2451036E+00  .2104685E+00  .1839159E+00
  141  .1654947E+00  .1021122E+00  .5004681E-01  0.  0.
  146  0.  0.  0.  0.  0.
  151  0.  0.  0.  0.  .1924056E+00
  156  .1965778E+00  .1697827E+00  .1569364E+00  .1441888E+00  .1284851E+00
  161  .1131784E+00  .9394847E-01  .7376619E-01  .5319225E-01  .3324004E-01
  166  .3472225E+00  .3866212E+00  .3648509E+00  .3104527E+00  .2782098E+00
  171  .2219872E+00  .1946357E+00  .1111829E+00  .5046046E+05  .1729883E+05
  176  .1466727E+00  .7509494E+04  .6708743E+04  .5237976E+04  .4452699E+04
  181  .3917215E+04  .2332004E+04  .1758665E+04  .9659984E+03  .4468496E+03
  186  .1516716E+03  .2401946E+02  .1047221E+05  .8939864E+04  .7530219E+04
  191  .6267336E+04  .5089204E+04  .3153784E+04  .2377538E+04  .1258373E+04
  196  .8035643E+03  .1961345E+03  .3825731E+02  .2503332E+05  .2285265E+05
  201  .2069135E+05  .1855291E+05  .1466188E+05  .1227307E+05  .1034391E+05
  206  .8462748E+04  .6054996E+04  .1893396E+04  .5403932E+03  .3490738E+05
  211  .3192287E+05  .2990623E+05  .2403043E+05  .2313274E+05  .1659886E+05
  216  .1398551E+05  .9976029E+04  .5648685E+04  .2451685E+04  .7649662E+03

0001C                                                                           ** ACNSTR -
    1  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01
    6  .1000000E+01  .1000000E+01  .1000000E+01  .1000000E+01  .1000000E+01
   11  .1000000E+01  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01
   16  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01
   21  .2000000E+01  .2000000E+01  -.2287875E+05  -.2358515E+05  -.2193220E+05
   26  -.2014033E+05  -.1857253E+05  -.1284954E+05  -.8035715E+04  -.5146245E+04
   31  -.2147269E+04  -.3928091E+03  -.1527404E+02  -.1514000E+04  -.1451678E+04
   36  -.1456006E+04  -.1537031E+04  -.1498340E+04  -.8476307E+03  -.7262190E+03
   41  -.5561050E+03  -.3534180E+03  -.1283337E+03  -.6356080E+01  -.4314261E+05
   46  -.3851387E+05  -.3945587E+05  -.5047097E+05  -.4473748E+05  -.3301674E+05
   51  -.2337084E+05  -.1667910E+05  -.1139095E+05  -.3733921E+04  -.1437624E+04
   56  -.7594674E+04  -.8493045E+04  -.9280037E+04  -.7485152E+04  -.4893680E+04
   61  -.5422748E+04  -.5147929E+04  -.4617542E+04  -.3578184E+04  -.1404172E+04
   66  -.1588527E+03  .1200000E+02  .1400000E+02  .1600000E+02  .1800000E+01
   71  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01
   76  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+02  .2000000E+02
   81  .2000000E+02  .2400000E+02  .2800000E+02  .3200000E+02  .3600000E+02
   86  .1600000E+02  .1200000E+02  .8000000E+01  .4000000E+01  .4000000E+01
   91  .4000000E+01  .4000000E+01  .4000000E+01  .4000000E+01  .2000000E+01
   96  .2000000E+01  .2000000E+01  .2000000E+01  .2000000E+01  0.
  101  0.  0.  0.  0.  .2000000E+01
  106  .2000000E+01  .2000000E+01  0.  0.  0.
  111  0.  0.  0.  0.  0.
  116  0.  0.  0.  0.  0.
  121  0.  .2000000E+00  .1900000E+00  .2000000E+00  .2000000E+00
  126  .1900000E+00  .1600000E+00  .1400000E+00  .1200000E+00  .1000000E+00
  131  .8000000E-01  .4000000E-01  .3263856E+00  .3137757E+00  .3169872E+00
  136  .3125678E+00  .2966247E+00  .2739055E+00  .2459596E+00  .2151529E+00
  141  .1260602E+00  .9654151E-01  .6404321E-01  0.  0.
  146  0.  0.  0.  .1000000E-01  .1000000E-01
  151  .1000000E-01  0.  0.  0.  .1362018E+00
  156  .1353631E+00  .1358890E+00  .1358535E+00  .1416271E+00  .1209276E+00
  161  .1013644E+00  .8060677E-01  .6727922E-01  .5367495E-01  .2682467E-01
  166  -.1853667E+05  -.1606872E+05  -.1406978E+05  -.1209826E+05  -.1016324E+05
  171  -.1611214E+05  -.1591231E+05  -.1405026E+05  -.8207175E+04  -.2314905E+05
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  181  .1488301E+04  .8900766E+03  .8024703E+03  .5236629E+03  .3063358E+03
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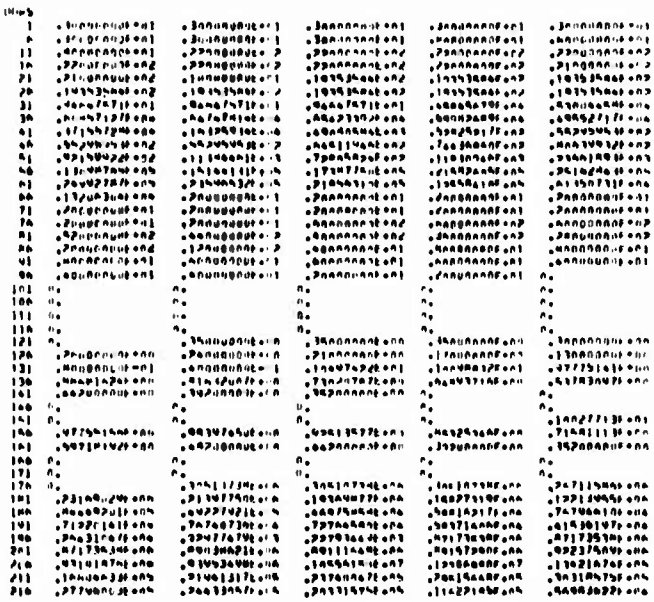
  196  .4326297E+03  .2218974E+03  .1740342E+02  .7288543E+04  .6027123E+04
  201  .9068103E+04  .1049098E+05  .8446737E+04  .5842977E+04  .5731928E+04
  206  .4395524E+04  .3043358E+04  .1967191E+04  .2093384E+03  .9482748E+04
  211  .8830227E+04  .1136338E+05  .1465578E+05  .1116587E+05  .7114460E+04
  216  .4512805E+04  .2110963E+04  .6342972E+04  .2773714E+04  .4350905E+03
```

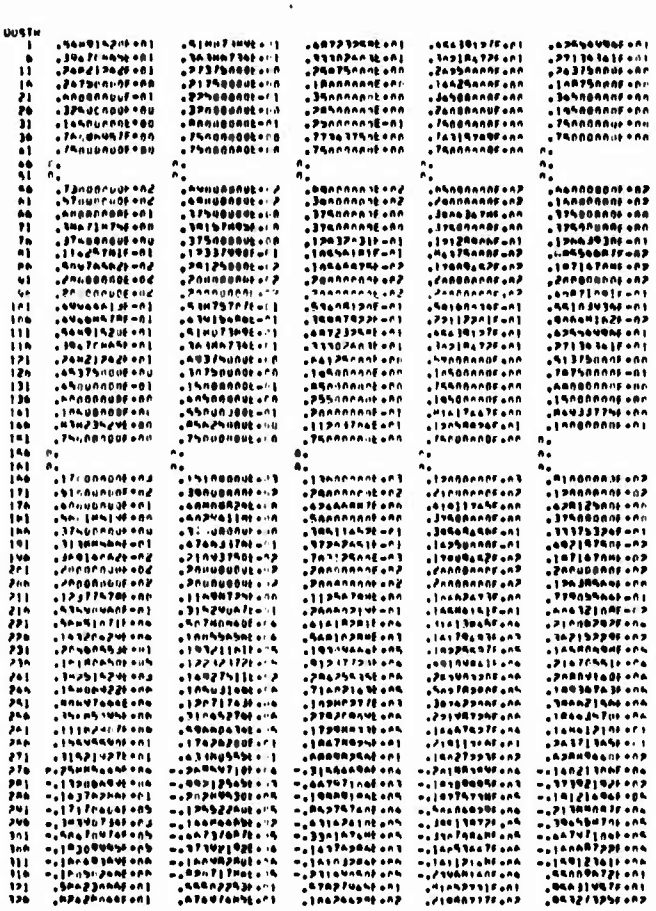
DOIS ** ACNSTR -

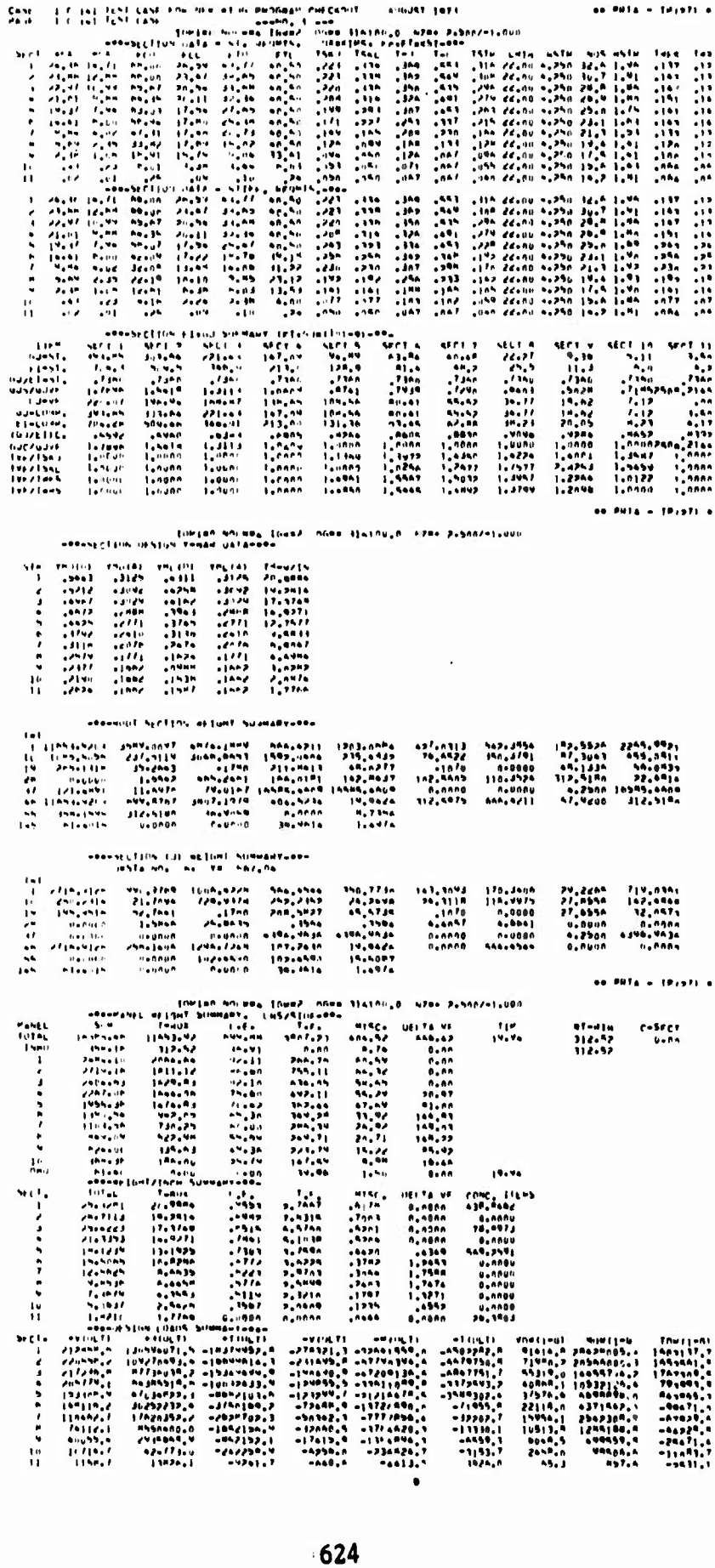
1	.3[illegible]E+01	.3[illegible]E+01	.3[illegible]E+01	.3[illegible]F+01	.3[illegible]E+01
6	.[illegible]E+01	.[illegible]E+01	.[illegible]E+01	.[illegible]F+01	.[illegible]F+01
11	.[illegible]E+01	.[illegible]E+02	.[illegible]E+02	.[illegible]F+02	.[illegible]E+02
16	.[illegible]E+02	.[illegible]E+02	.[illegible]E+01	.[illegible]F+01	.[illegible]E+01
21	.[illegible]E+01	.[illegible]E+01	.[illegible]E+02	.[illegible]F+02	.[illegible]E+02
26	.[illegible]E+02	.[illegible]E+02	.[illegible]E+02	.[illegible]F+02	.[illegible]E+02
31	.9[illegible]E+01	.9[illegible]E+01	.9[illegible]E+01	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	.[illegible]E+03
46	.[illegible]E+03	.[illegible]E+03	.[illegible]E+03	.[illegible]F+03	.[illegible]F+03
51	.[illegible]E+03	.[illegible]E+03	.[illegible]E+03	.[illegible]F+03	.[illegible]E+03
56	0.	0.	0.	0.	0.
61	0.	0.	0.	0.	0.
66	0.	.2[illegible]E+01	.2[illegible]E+01	.2[illegible]F+01	.2[illegible]E+01
71	.2[illegible]E+01	.2[illegible]E+01	.2[illegible]E+01	.2[illegible]F+01	.2[illegible]E+01
76	.2[illegible]E+01	.2[illegible]E+01	.4[illegible]E+01	.4[illegible]F+01	.4[illegible]F+01
81	.4[illegible]E+01	.4[illegible]E+01	.4[illegible]E+01	.4[illegible]F+01	.4[illegible]F+01
86	.4[illegible]E+01	.4[illegible]E+01	.4[illegible]E+01	.2[illegible]F+01	.2[illegible]E+01
91	.2[illegible]E+01	.2[illegible]E+01	.2[illegible]E+01	.2[illegible]F+01	.2[illegible]E+01
96	.2[illegible]E+01	.2[illegible]E+01	.2[illegible]E+01	.2[illegible]F+01	0.
101	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	.4[illegible]E-01	.4[illegible]E-01	.4[illegible]F-01	.4[illegible]E-01
126	.4[illegible]F-01	.4[illegible]E-01	.4[illegible]E-01	.4[illegible]E-01	.4[illegible]E-01
131	.4[illegible]F-01	.4[illegible]E-01	0.	0.	0.
136	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
151	0.	0.	0.	0.	.1780[illegible]E+02
156	.1[illegible]E+02	.2[illegible]E+02	.2[illegible]E+02	.2[illegible]F+02	.2[illegible]E+02
161	.2[illegible]E+02	.2[illegible]E+02	.2[illegible]E+02	.2[illegible]F+02	.2[illegible]E+02
166	.2[illegible]E+02	.2[illegible]E+02	.2[illegible]E+02	.2[illegible]F+02	.2[illegible]E+02
171	.2[illegible]E+02	.2[illegible]E+02	.2[illegible]E+02	.2[illegible]F+02	.2[illegible]E+02
176	.2[illegible]E+02	.2[illegible]E+06	.2[illegible]E+06	.2[illegible]F+06	.2[illegible]E+06
181	.1[illegible]E+06	.1[illegible]E+06	.1[illegible]E+06	.1[illegible]F+06	.1[illegible]E+06
186	.8[illegible]E+05	.4[illegible]E+06	.3[illegible]E+06	.6[illegible]F+06	.5[illegible]E+06
191	.6[illegible]E+06	.4[illegible]E+06	.4[illegible]E+06	.4[illegible]F+06	.4[illegible]E+06
196	.3[illegible]E+06	.1[illegible]E+06	.3[illegible]E+07	.5[illegible]E+07	.5[illegible]E+07
201	.5[illegible]E+07	.5[illegible]E+07	.6[illegible]E+07	.6[illegible]F+07	.3[illegible]E+07
206	.3[illegible]E+07	.3[illegible]E+07	.2[illegible]E+07	.1[illegible]F+07	.9[illegible]E+05
211	.1[illegible]E+06	.1[illegible]E+06	.1[illegible]E+06	.1[illegible]F+06	.1[illegible]E+06
216	.1[illegible]E+06	.1[illegible]E+06	.8[illegible]E+05	.3[illegible]F+05	.7[illegible]E+06

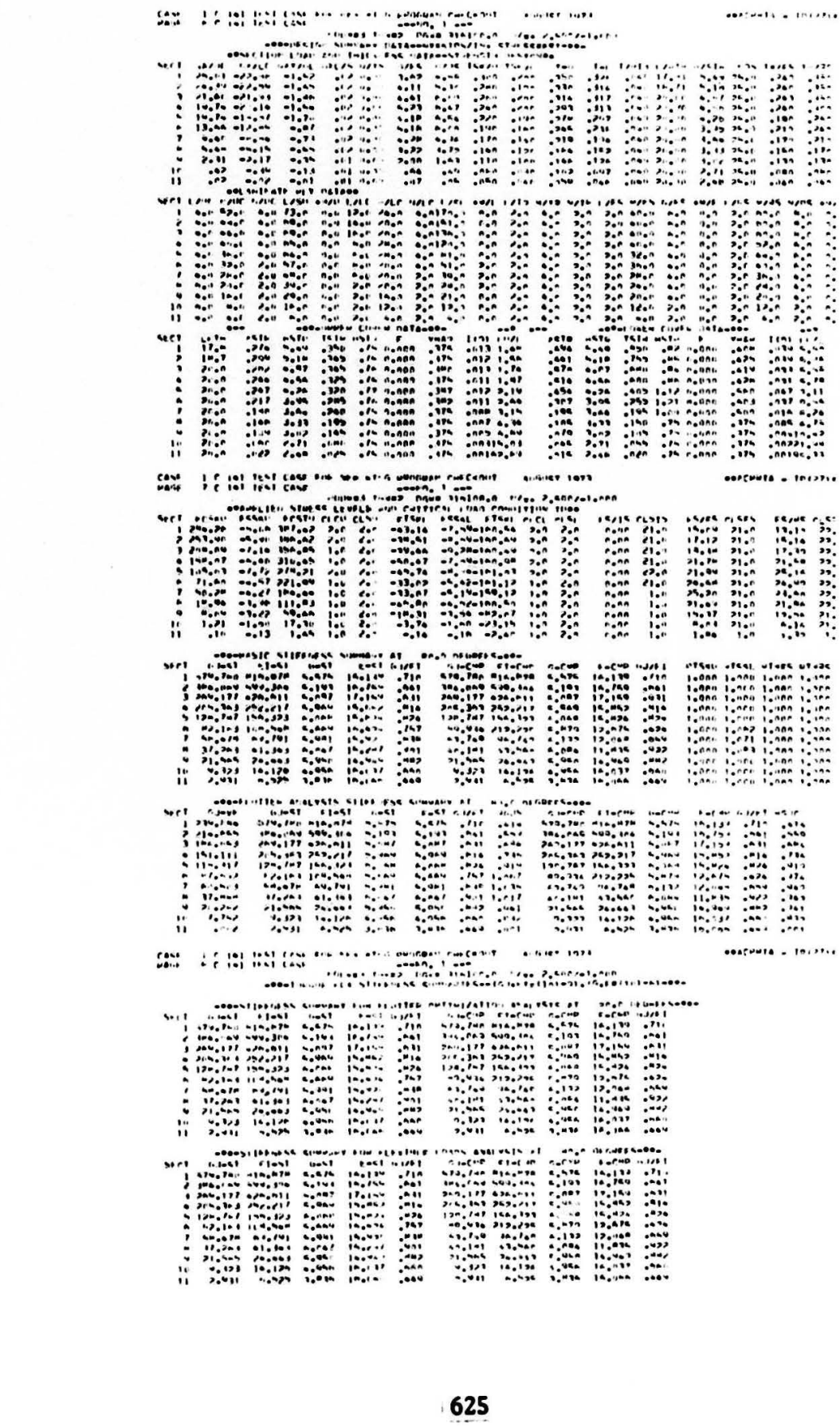
DOFS ** ACNSTR -

1	.3[illegible]E+01	.3[illegible]E+01	.3[illegible]E+01	.3[illegible]F+01	.3[illegible]E+01
6	.3[illegible]F+01	.3[illegible]E+01	.3[illegible]E+01	.[illegible]E+01	.[illegible]F+01
11	.[illegible]E+01	.2[illegible]E+02	.2[illegible]E+02	.2[illegible]F+02	.2[illegible]E+02
16	.2[illegible]E+02	.2[illegible]E+02	.2[illegible]E+02	.2[illegible]F+02	.2[illegible]E+02
21	.2[illegible]E+02	.1[illegible]E+01	.1[illegible]E+02	.1[illegible]F+02	.1[illegible]E+02
26	.1[illegible]E+02	.1[illegible]E+02	.1[illegible]E+02	.1[illegible]F+02	.1[illegible]E+02
31	.9[illegible]E+01	.9[illegible]E+01	.9[illegible]E+01	.3[illegible]F+04	.4[illegible]E+04
36	.4[illegible]F+04	.5[illegible]E+04	.4[illegible]E+04	.5[illegible]F+04	.4[illegible]E+04
41	.1[illegible]E+04	.1[illegible]E+03	.6[illegible]E+03	.7[illegible]F+02	.8[illegible]E+02
46	.8[illegible]E+02	.8[illegible]E+02	.8[illegible]E+02	.1[illegible]F+03	.9[illegible]E+02
51	.1[illegible]E+03	.1[illegible]E+03	.7[illegible]E+02	.1[illegible]F+03	.2[illegible]E+03
56	.1[illegible]E+05	.1[illegible]E+05	.1[illegible]E+05	.2[illegible]F+05	.2[illegible]E+05
61	.2[illegible]E+05	.2[illegible]E+05	.2[illegible]E+05	.1[illegible]F+05	.8[illegible]E+04
66	.1[illegible]E+04	.2[illegible]E+01	.2[illegible]E+01	.2[illegible]F+01	.2[illegible]E+01
71	.2[illegible]F+01	.2[illegible]E+01	.2[illegible]E+01	.2[illegible]F+01	.2[illegible]E+01
76	.2[illegible]E+01	.4[illegible]E+02	.4[illegible]E+02	.4[illegible]F+02	.4[illegible]E+02
81	.4[illegible]E+02	.3[illegible]E+02	.3[illegible]E+02	.2[illegible]F+02	.2[illegible]E+02
86	.2[illegible]F+02	.1[illegible]E+02	.4[illegible]E+01	.6[illegible]F+01	.4[illegible]E+01
91	.4[illegible]F+01	.4[illegible]E+01	.4[illegible]E+01	.4[illegible]F+01	.4[illegible]E+01
96	.4[illegible]F+01	.4[illegible]E+01	.2[illegible]E+01	.2[illegible]F+01	0.
101	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	.2[illegible]E+00	.2[illegible]E+00	.2[illegible]F+00	.2[illegible]E+00
126	.1[illegible]E+00	.2[illegible]E+00	.1[illegible]E+00	.1[illegible]F+00	.1[illegible]E+00
131	.4[illegible]F-01	.4[illegible]E-01	.8[illegible]E+00	.7[illegible]F+00	.7[illegible]E+00
136	.7[illegible]E+00	.4[illegible]E+00	.4[illegible]E+00	.5[illegible]F+00	.4[illegible]E+00
141	.3[illegible]E+00	.3[illegible]E+00	.3[illegible]E+00	0.	0.
146	0.	0.	0.	0.	0.
151	0.	0.	0.	0.	.7[illegible]E+00
156	.7[illegible]E+00	.7[illegible]E+00	.7[illegible]E+00	.[illegible]F+00	.[illegible]E+00
161	.[illegible]E+00	.[illegible]E+00	.3[illegible]E+00	.3[illegible]F+00	.3[illegible]E+00
166	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.
176	0.	.4[illegible]E+05	.4[illegible]E+05	.4[illegible]F+05	.4[illegible]E+05
181	.4[illegible]F+05	.4[illegible]E+05	.4[illegible]E+05	.4[illegible]F+05	.4[illegible]E+05
186	.4[illegible]F+05	.4[illegible]E+05	.2[illegible]E+02	.3[illegible]F+02	.3[illegible]E+02
191	.5[illegible]F+02	.[illegible]E+02	.7[illegible]E+02	.8[illegible]F+02	.1[illegible]E+03
196	.1[illegible]F+03	.1[illegible]E+03	.1[illegible]E+03	.2[illegible]F+06	.2[illegible]E+06
201	.2[illegible]F+06	.2[illegible]E+06	.2[illegible]E+06	.2[illegible]F+06	.2[illegible]E+06
206	.3[illegible]F+06	.3[illegible]E+06	.[illegible]E+06	.1[illegible]F+07	.1[illegible]E+07
211	.1[illegible]F+07	.1[illegible]E+07	.2[illegible]E+07	.3[illegible]F+07	.3[illegible]E+07
216	.5[illegible]F+07	.6[illegible]E+07	.9[illegible]E+07	.1[illegible]F+08	.4[illegible]E+08









NUDW=3 TGW=2 DGW= 314100.0 NZ= 2.500/-1.000

-**-PANEL WEIGHT SUMMARY. LBS/SIDE-**-

PANEL	SUM	T-BOX	L.E.	T.E.	MISC.	DELTA VF	TIP	RT-WIN	C-SECT
TOTAL	11957.81	8028.42	899.88	2917.91	291.65	20.24	16.76	422.54	7509.94
INBD	15.45	15.42	12.68	12.05	11.83	0.00		17.14	
1	1688.13	1382.91	92.11	152.43	40.69	0.00			
2	1874.37	1192.80	94.60	553.15	45.81	0.00			
3	1883.14	1061.56	82.10	498.63	41.05	0.00			
4	1838.09	1102.23	75.60	418.95	39.92	0.00			
5	1344.17	969.87	70.62	273.05	32.83	3.68			
6	974.88	804.68	65.30	281.31	23.78	7.03			
7	787.51	680.66	60.00	227.64	19.21	6.47			
8	627.41	570.65	55.69	185.76	15.30	3.09			
9	512.48	475.71	49.36	173.44	12.46	0.00			
10	317.73	185.03	25.70	119.15	7.75	0.00			
OUTBD	55.90	0.00	0.00	34.60	1.36	0.00	19.94		

-**-WEIGHT/INCH SUMMARY-**-

SECT.	TOTAL	T-BOX	L.E.	T.E.	MISC.	DELTA VF	CONC. ITEMS
1	17.2274	14.2710	.9553	1.5809	.4202	0.0000	515.3157
2	19.7902	12.6724	.8982	5.7349	.4827	0.0000	0.0000
3	17.8285	11.3708	.8515	5.1694	.4348	0.0000	63.8688
4	15.3080	9.8055	.7861	4.3650	.3734	0.0000	0.0000
5	12.1878	8.3283	.7303	2.8319	.2973	0.0000	482.5858
6	10.7750	8.0174	.6772	2.0178	.2428	.0758	0.0000
7	8.7912	6.8015	.6229	2.3609	.2144	.0700	0.0000
8	7.0292	6.3538	.5776	1.9246	.1714	.0662	0.0000
9	5.7621	5.3109	.5119	1.7988	.1405	0.0000	0.0000
10	4.4901	3.3762	.3567	1.6477	.1095	0.0000	0.0000
11	1.5592	1.5211	0.0000	0.0000	.0380	0.0000	22.5016

-**-DESIGN LOADS SUMMARY-**-

SECT.	+V(ULT)	+M(ULT)	+T(ULT)	-V(ULT)	-M(ULT)	-T(ULT)	VDW(1-G)	MDW(1-G)	TDW(1-G)
1	227012.2	13582690?.5	-1863?941.6	-273564.3	-9867?467.0	-671?115.5	87640.5	27032582.5	1672661.4
2	232657.0	11313?246.2	-1691400?.4	-?27424.4	-8627?010.?	-6?54211.5	6?753.8	19534509.5	1710733.?
3	225940.8	90613276.3	-1568?92?.3	-187?86.9	-6407?756.1	-5991797.7	53013.9	13677680.7	1?046??.?
4	212197.3	69533695.4	-1012?941.9	-127?53.6	-3?79?640.5	-?48?713.4	39156.4	9959279.2	818940.4
5	158172.0	48644537.7	-8740534.4	-1210?41.3	-2?65?716.5	-?67?557.?	36279.7	6249660.6	864780.?
6	153113.9	31312490.4	-?85?112.9	-707?42.4	-1?365?56.0	-124780.2	20785.3	4088806.6	-88019.?
7	114240.2	18258712.7	-?6?8202.0	-49121.3	-756?605.9	-69237.1	14946.8	2372079.4	-57396.?
8	76783.6	8?7?66?.5	-1679105.1	-31247.6	-367?834.?	-35956.0	9?06.7	1197456.4	-37042.?
9	61?32.1	3?61539.?	-?6?101.2	-14984.2	-134470?.?	-18094.7	5?2?.1	468?94.3	-21751.7
10	11337.9	445249.4	-2473??7.7	-?103.4	-22?5?4.4	-?056.4	2291.?	93061.?	-?715.?
11	1?94.4	13994.5	-10015.2	-?46.?	-7?06.4	545.9	?2.5	?12.2	-2324.?

NUDW=3 TGW=2 DGW= 314100.0 NZ= 2.500/-1.000

-**-SECTION DESIGN Y-BAR DATA-**-

STA	YBU(D)	YBU(A)	YBL(D)	YBL(A)	TR-W/IN
1	.1924	.1975	.1362	.1395	14.2710
2	.1?06	.1?68	.1305	.1333	12.6724
3	.1498	.1734	.1359	.1385	11.3708
4	.1549	.1604	.1385	.1413	9.8055
5	.1442	.1480	.1416	.1447	8.3283
6	.1269	.1298	.1209	.1234	6.8616
7	.1132	.1159	.1014	.1039	5.5936
8	.0930	.0953	.0806	.0826	4.2895
9	.0738	.0773	.0673	.0692	3.3109
10	.0532	.0548	.0537	.0553	2.3762
11	.0332	.0332	.0268	.0268	1.5211

-**-ROOT SECTION WEIGHT SUMMARY-**-

TWT									
1	8028.4219	2352.6257	2438.9458	20.2385	565.3248	444.6865	786.2802	692.2380	1703.6202
10	376.2098	272.7957	1429.3704	488.7007	320.8747	100.7718	343.9147	123.9373	662.9428
19	0.0000	0.0000	0.0000	20.2385	0.0000	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	291.7819	122.5127	129.1654	141.0235	[illegible]96	422.5393	11.8928
37	198.4907	16.2476	82.6826	11957.8082	11957.8082	0.0000	[illegible]005	5.4892	11957.8082
46	8028.4219	699.8767	2917.9132	291.6539	19.9424	422.5393	2[illegible]5	14.0000	422.5393
55	470.9313	422.5393	36.9059	0.0000	11.4861				
65	55.9012	0.0000	0.0000	36.5962	1.3634				

** DWYHA - IP(25) **

CASE 1 -**-DEAD-EIGHT AND Y-HAH ADJUSTMENT DATA-**-

IGW=2 NODW=1 DGW= 316100.0 DGWRI= 0.00000

STA	DEFF(A)	YHU(A)	YHU(D)	YHL(A)	YHL(D)	TH-W/IN	TR-M(A)	TH-M(D)	MA(D)
1	42.0933	.5501	.5505	.4332	.4333	21.0883	3839251.2	3839782.0	26492.9
2	37.1819	.5248	.5293	.4286	.4287	19.3842	2815979.6	2816252.2	24045.3
3	32.1523	.5080	.5086	.4206	.4207	17.5168	1978908.0	1979014.0	23211.9
4	27.0799	.4669	.4671	.3970	.3970	15.0817	1318955.8	1318977.9	21328.1
5	22.6983	.4476	.4477	.3795	.3796	12.9661	806161.9	806160.8	19811.5
6	20.9205	.3776	.3776	.3166	.3166	9.7309	478232.1	478208.3	14769.8
7	19.1388	.3166	.3166	.2509	.2509	7.0077	255908.7	255885.2	10104.2
8	17.3692	.2586	.2586	.1660	.1660	4.7572	117109.3	117090.2	5864.2
9	15.5469	.2383	.2383	.0981	.0981	3.0434	40912.2	40903.5	2446.7
10	13.8100	.2133	.2127	.1497	.1495	2.0896	7398.7	7398.2	443.1
11	12.1266	.2581	.2573	.1576	.1574	1.7731	0.0	0.0	14.9

** DWYHA - IP(25) **

STA	YHU(N)	YHL(N)	UL-W/IN	TH-M(N)
1	.5505	.4333	.0001	3839397.8
2	.5293	.4287	.0002	2816074.2
3	.5086	.4207	.0003	1978914.3
4	.4671	.3970	.0001	1318974.9
5	.4477	.3796	.0001	806174.5
6	.3776	.3166	.0000	478226.9
7	.3166	.2509	.0000	255902.9
8	.2586	.1660	-.0000	117104.9
9	.2383	.0981	.0000	40911.5
10	.2127	.1495	-.0001	7399.8
11	.2572	.1574	-.0001	0.0

** DEADW - IP(25) **

-**-DEADWEIGHT ADJUSTMENT RESULTS-**-

IGW=2 NODW=1 DGW= 316100.0

STA	TH(V)	TH(M)	TH(T)	TRWPI	VFWPI	TMWPI	TDWPI	THC#T	W-DIST	TW-DIST
1	1208446.6	3839389.3	.0	21.0883	0.0000	.6198	-.0001	435.50	1955.01	1955.01
2	986194.1	2816076.9	.0	19.3842	0.0000	.7028	.0001	0.00	1783.59	1783.59
3	777861.1	1978964.3	.0	17.5168	0.0000	.6238	.0002	78.55	1575.80	1575.80
4	600161.7	1318977.9	.0	15.0817	0.0000	.5242	.0001	0.00	1356.02	1356.02
5	448202.2	806177.2	.0	12.9661	.3832	.4660	.0001	580.44	1097.45	1097.45
6	298101.1	478226.9	.0	9.7309	1.0846	.3779	.0000	0.00	809.33	809.33
7	183867.7	255904.2	.0	7.0077	1.6860	.3071	.0000	0.00	569.01	569.01
8	107900.0	117105.7	.0	4.7572	1.7183	.2411	.0000	0.00	378.30	378.30
9	53864.4	40911.4	.0	3.0434	1.3158	.1798	.0000	0.00	250.54	250.54
10	18867.7	7400.0	.0	2.0896	.4606	.1237	-.0001	0.00	143.11	143.11
11	26.3	0.0	.0	1.7731	0.0000	.0443	-.0001	26.30		

** VLOAD - IP(25) **

CASE 1 -**-DESIGN LOADS/1000 AND HEWN GJ/1.000.000-**-

IGW=2 NODW=1 IOPT=0 DGW= 316100.0

STA	+V(ULT)	+M(ULT)	+T(ULT)	-V(ULT)	-M(ULT)	-T(ULT)	VDW(1G)	MDW(1G)	TD#(1G)	GJ(REDN)
1	209.887	130182.66	-18379.95	-278.321	-92841.56	-4502.28	92.207	28537.72	1603.14	220074.816
2	218.025	109053.29	-16699.61	-231.494	-77790.39	-4079.75	72.654	20823.92	1653.56	196936.022
3	214.391	87786.78	-15369.50	-190.491	-67209.14	-4847.75	56.094	14442.21	1767.31	168866.324
4	203.348	66682.53	-10032.43	-129.856	-53011.09	-3372.59	41.816	10452.92	743.99	138647.713
5	151.467	47541.10	-8682.10	-123.100	-21216.48	-3589.10	38.068	6563.87	843.87	108563.437
6	169.078	30693.65	-3750.17	-72.489	-13724.89	-71.96	21.482	4253.48	-99.67	80411.994
7	111.748	17491.69	-2828.70	-50.362	-7777.84	-32.20	15.412	2454.00	-67.93	55521.247
8	75.435	8753.28	-1652.16	-32.000	-3744.62	-13.33	10.161	1231.09	-44.23	34770.888
9	41.090	3022.22	-852.15	-17.416	-1384.89	-6.56	5.773	476.68	-25.67	19615.443
10	11.185	437.62	-242.28	-6.256	-236.82	-3.15	2.338	95.08	-11.08	7116.104
11	1.080	13.83	-9.24	-.680	-4.41	3.93	.092	.86	-2.53	1.396

CASE 1 SECTION II DATA. TOG=.316100.0 DGW=.316100.0 IGW=2 NODW=1 IOPT=0 ** PAIR - IP(31) *

C 161 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 161 TEST CASE ---NO. 1 ---

IOC	---UPPER COVER AND GENERAL DATA---						
88	.161E+02	.910A9178E+01	.10A8A45E+03	.A335U81E+01	.10A896 1E+02	.1212568E+02	.1395668E+0
75	.5063202E+03	.A677234E+03	.A653523E+02	.1256012E+03	.10A807AE+04	.1382A05E+05	.161E47AE+0
82	.425U000E+01	.2555254E+03	.2527180E+03	.2861E47E+00	.1014153E+00	.6AA57578E-01	.AA857878E-0
89	.4122A54E-01	.1A158A12E-03 0.		.337150A6E-03 0.		.6000000E-01	.7164447E-0
96	.1A85578E-01	.6000000E-01	.1741117E+01 0.		.2200000E+02	.1520073E-01	.674A3378E+0
103	.1064493E+0A	.1050000E+0A	.1040A29E+05	.1040A29E+05	.4000000E-01	.1670270E+02	.3916A78E+0
110	.A500000E+02	.2394A22E+03	.5000000E-01	.A7019 15E-01	.5000000E-01	.2125000E+00 0.	

IOC	---LOWER COVER, FRONT AND REAR SPAR DATA---						
161	.6000000E+00	.A600000E+05	.1050000E+0A	.1012U00E+00	.A500000E+00	.1402003E+06	.6216A2E+0
168 0.		.1A158A12E-03 0.	0.		.6519277E-02	.7164A47E-01	.1573743E+0
175 0.		0.	0.	0.	.1018553E+01	.6A00000E-01	.3240000E+0
182	.A000000E+01	.9373376E+03	.3543004E+0A	0.	.1201205E+01	.6A00000E-01	.3760000E+0
189	.6000000E+01	.9298112E+03	.2296203E+0A	0.	.1A96611E+03	.6000000E-01	.6500000E+0
196	.7AA5714E+03	.6000000E+00	.1018476E+02	.1600000E+02 0.		.1018476E+02	.6250000E+0

IST	---STRUCTURAL ELS OF DATA---						
282	.4052533E+03	.2574A46E+0A	.3100A05AE+03	.2AA9A56E+04	.AA7549 2E+03	.6323174E+01	.1573743E+0
289	.1573743E+00	.7311140E+02	.3331300E+03	.2349A31E+03	.3944335E+03	.4491262E+01	.6518A56E+0
296	.6518A56E+01	.1171334E+01	.1381300E+01	.1155246E+02 0.		0.	0.
1A5							
7	.3500A10E+10	.6142552E+10	.8A0974AE+00	.250A2158E+06	.6677234E+03	.6667124E+02	.4056017E+0
14	.4052A41E+01	.10A3A55E+02	.5000000E-01	.1249012E+03	.1716001E+01	.A277325E+00	.1791401E+0
21	.1791401E+01	.9027325E+00	.1076A52E+02	.1164734E+02	.6940A29E+00	.5620440E+01	.4052E31E+0

CASE 1 PANEL II DATA. TOG=.316100.0 DGW=.316100.0 IGW=2 NODW=1 IOPT=0 ** PAIR - IP(31) *

C 161 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 161 TEST CASE ---NO. 1 ---

IWT	---DETAIL WEIGHT DATA---								
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	61.4015	61.4015	0.0000	0.0000	6.2500	61.4015
46	0.0000	0.0000	39.9814	1.4978	19.9636	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000	0.0000	61.4015	0.0000	0.0000	39.9814
64	1.4978	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
97	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
106	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.321R	3.321R	2.0151
145	61.4015	0.0000	0.0000	39.9814	1.4978	.0500	.0500	.0440	.0644
185	0.0000	0.0000	.3566	.3566	4.4057	25.7819	4.6641	1.5000	.2178
194	.2178	.1782	.1782	2.2029	.2178	.2178	1.5000	0.0000	0.0000
203	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
212	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
221	26.2987	25.7819	.3566	.3566	4.4057	4.6641	3.321R	3.321R	2.0151

IWT	---SECTION WT/INCH DATA---								
331	.3355	.3355	.4452	.1181	.1209	.0018	.0018	0.0000	0.0000
340	0.0000	0.0000	0.0000	0.0000	.0672	.0805	.0382	.0437	0.0000
349	0.0000	0.0000	0.0000	0.0000	.0420	.0220	.0029	.0036	.0276
358	.5133	.5282	.4452	.1160	.1344	0.0000	0.0000	0.0000	0.0000
367	0.0000	0.0000	0.0000	0.0000	1.7730	0.0000	0.0000	.0338	.3544
376	.3564	4.4057	25.7819	4.6641	0.0000	1.8174	1.7730	0.0000	0.0000
385	.0443	0.0000	26.2987	0.0000	26.2987	0.0000	0.0000	0.0000	0.0000

TI	--- JOINTS/HLHD DATA---							
1	6.5181	11.4066	8.1476	80.6690	.0[illegible]	.1560	.1560	1.6625
9	9.3282	1.7050	34.0344	.0005	4.7318	.4253	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

```
CASE    1  SECTION  1 DATA.  TOG=.316100.0  DRW=.316100.0  IGW=2  NOOW=1  IOP1=0          ** PWIB - IP(31) *

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT     AUGUST 1973
C 141 TEST CASE                  ---NO. 1 ---

 IOC      ---UPPER COVER AND GENERAL DATA---
  48   .425H064E+02   .2791454E+02   .4535794E+02   .1483309E+05   .2449307E+05   .4204278E+02   .2200748E+1
  75   .1084167E+06   .1282464E+08   .1427188E+03   .4307883E+02   .2098867E+06   .1301827E+09   .3258A49E+0
  92   .4250000E+01   .4600000E+05   .4600000E+05   .1577245E+01   .4780090E+00   .5561088E+00   .3711A72E+0
  99   .9H404728E-01   .1577481E-02   0.             .4919180E-02   0.             .1408370E+00   .4291382E+0
  96   .1480327E+00   .3181020E+00   .1977791E+01   0.             .2200000E+02   .1569339E+00   .4502035E+0
 103   .64HHH89E+07   .1550080E+07   .4244143E+01   .4244143E+01   .4000000E-01   .1088706E+01   .1905196E+0
 110   .1271390E+02   .4040000E+05   .9342799E+00   .5576H8AE+00   .2270744E+00   .9480663E+00   0.

 IOC      ---LOWER COVER, FRONT AND REAR SPAR DATA---
 141   .6055404E+00   .4600000E+05   .1050000E+08   .1010000E+00   .4500000E+00   .4600000E+05   .4553A25E+0
 168   0.             .2364565E-02   0.             0.             .2247575E+00   .9427730E+00   .4312885E+0
 175   0.             0.             0.             0.             .5351921E+01   .1360241E+00   .9303381E+0
 182   .6000000E+01   .2884718E+05   .1299421E+08   0.             .7631303E+01   .1237836E+00   .1051000E+0
 189   .6000000E+01   .2284335E+05   .3378041E+05   0.             .2449307E+06   .6000000E-01   .6000000E+0
 196   .6400000E+05   .4000000E+00   .3258A49E+02   .3200000E+02   0.             .3258A04E+02   .4250000E+0

 IOI      ---STRUCTURAL EI, GJ DATA---
 242   .6098A053E+04   .9822411E+03   .6429805E+01   .1475222E+06   .1008289E+06   .2560201E+02   .4332585E+0
 249   .4332598AE+00   .4104624E+04   .6142371E+05   .1234083E+06   .6736889E+05   .5739156E+02   .8800203E+0
 256   .8800203E+02   .4154709E+01   .8775094E+01   .1403263E+03   0.             0.             0.
 IS5
   7   .3932327E+12   .7072473E+12   .5560045E+00   .1786H164E+01   .1282463E+06   .1425686E+03   .2741A74E+0
  14   .2741079E+02   .4505018E+02   .3037566E+00   .4277277E+02   .7518991E+01   -.1138707E+01   .7915A03E+0
  21   .7915803E+01   -.8040951E+00   .3699412E+02   .4371381E+02   .4384299E+01   .2640610E+02   .6098A63E+0


CASE    1  PANEL  1 DATA.  TOG=.316100.0  DRW=.316100.0  IGW=2  NOOW=1  IOP1=0          ** PWIC - IP(31) *

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT     AUGUST 1973
C 141 TEST CASE                  ---NO. 1 ---

 IWI      ---DETAIL WEIGHT DATA---
   1  11414.7946   3323.5169   4680.7455   635.3109   1203.0884   379.2592   486.5716   191.5944   1874.2249
  10    992.2039    225.1728   2605.5033   1431.7309    218.0072    70.3192    274.4618    80.0959    302.2419
  19    252.4877     36.2716      .1903    198.5592     43.4158      .1160      0.0000     47.3638     55.2572
  28      0.0000      1.6693   466.7477    170.1200    140.2306    103.1753    110.3524    309.7019     22.6014
  37    119.8992     11.5916    78.5433  16302.5284  16302.5284      0.0000      0.0000      4.2500  16302.5284
  46  11414.7946   662.9788  3807.1479    397.6226     19.9496    309.7794    635.3109     57.9200    309.7019
  55    455.2730    309.7019    36.9059      0.0000      8.6682   2492.7682   2073.0791     92.1088    266.7814
  64     80.7947      0.0000   309.7794    309.7019      .0775      .0787      .0775      .0237      0.0000
  97   1955.0278    587.4067   926.5567      0.0000    275.1265     62.7043     88.4014     14.6322    118.0513
 106      0.0000      0.0000     0.0000    118.0513    133.1754      2.7120      2.0400     12.2229     32.5063
 115      0.0000      0.0000     0.0000      0.0000      0.0000      0.0000     34.6801     53.1772     14.0441
 145     61.4015      0.0000     0.0000     39.9414      1.4774      .2398       .3477       .1564       .1424
 165      4.3360      5.9397     2.7120      2.0400     12.2229    133.1754     32.5063      1.0000       .2500
 174       .3548      2.7120     2.0400     12.2229       .2599       .3548      1.0000      0.0000      0.0000
 203      0.0000      0.0000     0.0000      0.0000      0.0000      0.0000      0.0000      0.0000      0.0000
 212      0.0000      0.0000     0.0000      0.0000      0.0000      0.0000      0.0000      0.0000      0.0000
 221    118.0513    133.1754     2.7120      2.0400     12.2229     32.5063     34.6801     53.1772     14.0441

 IWI      ---SECTION WT/INCH DATA---
 331      3.5027      5.3709     3.1029      2.2939      3.5173       .0398       .0596      0.0000      0.0000
 340      0.0000      0.0000     0.0000      0.0000       .4988       .7433       .1081       .1222      0.0000
 349      0.0000      0.0000     0.0000      0.0000       .0242       .0358       .0152       .0216       .1247
 358      6.3023      9.8821     3.1029       .6677       .9521      0.0000      0.0000      0.0000      0.0000
 367      0.0000      0.0000     0.0000      0.0000     21.0685      0.0000      0.0000       .1615      2.7120
 376      2.0400     12.2229   133.1754     32.5063      0.0000     25.4102     21.0685       .9553      2.7847
 385       .6198      0.0000   435.6458      0.0000    118.0513      0.0000    427.7533      0.0000      0.0000

 TT       ---  JOINTS/BLMD DATA---
   1     14.4145     25.2254    18.0181    178.3974       .0800       .1560       .1560      1.6625
   9     85.0126      1.7050    75.9683       .7560     10.5085       .4253      0.0000      0.0000
  17      0.0000      0.0000     0.0000      0.0000      0.0000      0.0000      0.0000      0.0000
```

CASE 1 -- ** PRTH - IP(29) =

PANEL 12 DATA. TOGW=316100.0 DGW=316100.0 TGW=2 NODW=1 IOP1=0 T=

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

----CENTER-SECTION DATA -- LB/AV----

TSS	--DETAIL WEIGHT DATA--								
1	3049.8954	76.2474	901.7278	1347.2179	209.5413	102.9443	81.6040	50.7570	538.3444
10	352.5532	10.8302	806.7160	528.3054	12.1945	12.7372	90.2071	14.3901	67.2139
19	356.1032	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	224.0000	224.0000
28	77.7000	43.0765	37.3378	7.8477	1.2528	1.3456	1.1264	1.1728	75.5080
37	280.5952	17.8052	.7431	1.6765	0.0000	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	546.0684	0.0000	0.0000
TWT									
331	15.8442	18.2263	5.4299	8.1347	1.2411	.5278	.4294	.0812	3.2593
340	2.1338	.0377	4.8826	3.1976	.0546	.0940	.1062	.4338	.3232
349	0.0000	0.0000	0.0000	1.5497	1.1657	6.1115	356.1032	17.8052	6.1105
358	9.1552	1.4557	.7971	.6208	.0871	3.6702	2.4035	.0368	5.4998
367	3.6017	.0536	.0699	.0790	.7272	.5418	0.0000	0.0000	0.0000
376	3.4912	2.6261	13.7679	75.5080	280.5952	25.4102	21.0685	.9553	2.7647
385	.6198	0.0000	435.4958	0.0000	118.0513	0.0000	427.7533	0.0000	0.0000

CASE 1 ** PRTH - IP(29) =

TOGW=316100.0 DGW=316100.0 XND= 2.500 XNZ= 1.000

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---
PIVOT AND DELTA T.B. WT. SUMMARY

TSS										
1	2204.348	55.109	623.999	587.914	116.024	142.356	168.714	61.290	519.695	81.078
11	22.328	340.443	207.753	33.698	15.759	126.597	20.173	148.541	504.051	0.000
21	0.000	0.000	0.000	0.000	0.000	224.000	224.000	77.700	43.077	37.334
31	5.633	1.253	1.346	1.126	1.173	39.531	464.520	25.203	.763	1.477
41	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000
TWT										
1	16057.983	4705.522	4878.221	40.477	1130.794	929.373	1572.560	1384.535	3407.260	752.429
11	545.862	2858.741	1377.401	642.079	201.544	727.829	247.875	1324.484	0.000	0.000
21	0.000	40.477	0.000	0.000	0.000	0.000	0.000	0.000	0.000	583.729
31	245.273	258.618	202.092	90.839	845.247	23.646	394.981	32.495	165.534	23916.784
41	23916.784	0.000	0.000	10.978	23916.784	16057.983	1390.753	5435.826	583.336	39.485
TWT										
331	9.644	11.504	3.745	3.509	.687	.725	.863	.114	3.145	.494
341	.103	2.097	1.257	.155	.114	.149	.609	.714	1.000	0.000
351	0.000	1.658	2.566	5.574	504.051	25.203	4.217	3.450	.806	1.107
361	1.308	.117	3.543	.559	.115	2.362	1.414	.171	.096	.111
371	1.021	1.197	0.000	0.000	0.000	3.735	5.780	12.557	34.531	464.520
381	17.228	14.272	.955	1.581	.420	0.000	515.412	0.000	82.223	0.000
391	504.846	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.075	0.000

INCIDENCE ANGLE (DEG) ALPHA = 21.0000 MACH NO = 2.5000/-1.0000

---SECTION DATA - ST. WEIGHTS, MOMENTS, PRESSURES---

SECT	+NB	-NB	POS	PSL	PTO	PSL	TSTO	TSAL	T+C	T-C	TSTO	LAIR	MSTO	NOS	MSTO	TWBS	TWBS
1	24.00	14.44	44.90	51.76	62.61	11.00	0.223	0.167	0.377	0.279	0.320	22.00	4.250	32.6	1.44	0.138	0.125
2	24.00	12.95	49.00	65.75	77.00	11.00	0.222	0.169	0.365	0.277	0.311	22.00	4.250	36.7	1.45	0.143	0.132
3	23.16	10.77	49.87	34.95	3.76	11.00	0.220	0.169	0.353	0.270	0.300	22.00	4.250	28.0	1.48	0.147	0.138
4	21.25	9.69	44.35	24.50	21.20	11.00	0.208	0.167	0.338	0.260	0.282	22.00	4.250	26.4	1.53	0.151	0.145
5	19.70	7.61	45.60	32.15	29.5	11.00	0.201	0.164	0.311	0.239	0.269	22.00	4.250	25.0	1.57	0.161	0.161
6	16.89	5.93	53.96	32.15	45.69	11.00	0.172	0.138	0.255	0.172	0.216	22.00	4.250	23.1	1.66	0.144	0.145
7	10.05	4.78	47.09	85.10	104.32	11.00	0.126	0.104	0.180	0.111	0.144	22.00	4.250	21.3	1.93	0.136	0.135
8	5.84	2.19	34.61	74.01	134.11	11.00	0.127	0.063	0.170	0.064	0.124	22.00	4.250	19.4	1.41	0.170	0.122
9	2.46	1.03	19.32	15.36	1.64	11.00	0.095	0.050	0.127	0.047	0.097	22.00	4.250	17.5	1.41	0.101	0.102
10	0.63	0.22	6.26	3.29	4.17	11.00	0.044	0.021	0.072	0.021	0.047	22.00	4.250	15.6	1.41	0.067	0.069
11	0.02	0.01	0.29	0.14	0.19	11.00	0.024	0.050	0.047	0.047	0.040	22.00	4.250	14.2	1.40	0.044	0.044

---SECTION DATA - STBD. REGRESS.---

1	24.00	14.44	44.90	51.76	62.61	11.00	0.223	0.167	0.373	0.279	0.320	22.00	4.250	32.6	1.44	0.138	0.125
2	24.00	12.95	49.00	65.75	77.00	11.00	0.223	0.169	0.365	0.277	0.311	22.00	4.250	36.7	1.45	0.143	0.132
3	23.16	10.77	49.87	34.95	3.76	11.00	0.220	0.169	0.353	0.270	0.300	22.00	4.250	28.0	1.48	0.147	0.138
4	21.25	9.69	44.35	24.50	21.20	11.00	0.208	0.167	0.338	0.260	0.282	22.00	4.250	26.4	1.53	0.151	0.145
5	19.70	7.61	45.60	32.15	29.5	11.00	0.201	0.164	0.311	0.239	0.269	22.00	4.250	25.0	1.57	0.161	0.161
6	16.89	5.93	53.96	32.15	45.69	11.00	0.172	0.138	0.255	0.172	0.216	22.00	4.250	23.1	1.66	0.144	0.145
7	10.05	4.78	47.09	85.10	104.32	11.00	0.126	0.104	0.180	0.111	0.144	22.00	4.250	21.3	1.93	0.136	0.135
8	5.84	2.19	34.61	74.01	134.11	11.00	0.127	0.063	0.170	0.064	0.124	22.00	4.250	19.4	1.41	0.170	0.122
9	2.46	1.03	19.32	15.36	1.64	11.00	0.095	0.050	0.127	0.047	0.097	22.00	4.250	17.5	1.41	0.101	0.102
10	0.63	0.22	6.26	3.29	4.17	11.00	0.044	0.021	0.072	0.021	0.047	22.00	4.250	15.6	1.41	0.067	0.069
11	0.02	0.01	0.29	0.14	0.19	11.00	0.024	0.050	0.047	0.047	0.040	22.00	4.250	14.2	1.40	0.044	0.044

---SECTION FORCE SUMMARY (ELEMENT-BY-ELEMENT)---

ITEM	SECT 1	SECT 2	SECT 3	SECT 4	SECT 5	SECT 6	SECT 7	SECT 8	SECT 9	SECT 10	SECT 11
GJ-ST.	313.96	259.96	173.06	113.06	73.56	48.35	29.52	17.66	9.60	5.15	3.80
EI-ST.	727.66	391.27	254.61	154.55	94.64	60.45	35.64	20.65	11.64	6.0	4.2
GJ/EI-ST.	1.1999	1.1999	1.1999	1.1999	1.1999	1.1999	1.1999	1.1999	1.1999	1.1999	1.1999
GJS/GJVF	1.1999	1.0127	0.8659	0.8504	0.8709	0.9068	0.9449	0.9733	0.9255	0.9106	0.8968
GJ-VF	261.20	213.73	200.01	164.54	149.43	99.62	85.81	61.25	22.69	8.44	0.00
GJ-COMP.	313.62	234.96	202.14	164.53	136.34	96.68	61.64	41.77	22.31	8.44	3.50
EI-COMP.	527.36	361.31	277.24	167.84	134.32	102.41	70.06	43.72	23.71	9.73	4.17
(GJ/EI)C.	0.5963	0.5784	0.7715	0.8866	0.9956	0.9638	0.9529	0.9556	0.9626	0.8783	0.8401
GJC/GJVF	1.1999	1.0127	1.0131	1.0131	1.0131	1.0121	1.0121	1.0121	1.0121	1.0121	1.0121
TVF/TSRU	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
TVF/TSAL	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
TVF/TWBS	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
TVF/TWRS	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

INCIDENCE ANGLE (DEG) ALPHA = 21.0000 MACH NO = 2.5000/-1.0000

---PANEL WEIGHT SUMMARY---

PANEL	SUM	I-BOX		TAIL	MISC.	DELTA VF	TIP	WT-RIB	
TOTAL	1402.241	1306.07		417.50	1417.14	19.94		302.51	3.1761
INBD	467.90	25.21		0.0	1.69	0.0		302.51	
1	1567.22	1616.16	42.11	162.43	46.42	0.0			
2	2128.73	1637.67	12.10	552.14	41.92	46.46			
3	2160.17	1371.51	42.10	498.64	49.80	134.98			
4	2139.84	1199.43	35.60	418.54	42.09	267.73			
5	1961.21	1011.61	37.69	272.57	46.24	309.19			
6	1656.61	1569.71	29.34	241.21	33.77	374.60			
7	1113.96	794.14	40.61	227.65	27.17	326.47			
8	552.65	510.61	19.60	169.77	20.80	235.03			
9	611.57	57.61	6.71	127.64	15.16	132.43			
10	350.77	21.94	29.34	119.11	6.70	28.64			
TIP	0.0	0.0	0.0	0.0	1.36	0.0	19.94		

---WEIGHT/INCH SUMMARY---

SECT.	TOTAL	I-BOX	L.E.	T.E.	MISC.	DELTA VF	CONC. ITEMS
1	14.1661	14.1	0.8665	1.4859	0.4669	0.0	4.54.4027
2	21.8796	14.7	0.8514	0.7768	0.4334	0.0	0.0
3	22.0186	14.0	0.8519	0.1854	0.5028	0.8204	90.5744
4	19.7898	1.0	0.7941	0.5661	0.4884	1.8784	0.0
5	17.4438	13.2	0.7303	0.8319	0.4229	3.0667	432.3019
6	15.4416	11.4	0.6776	0.9137	0.3759	3.4431	0.0
7	11.0796	8.1	0.6225	0.9410	0.3082	3.7751	0.0
8	7.4500	7.1	0.5730	1.4267	0.2622	2.6427	0.0
9	3.5041	5.2	0.5139	1.7961	0.1838	1.6694	0.0
10	1.0044	2.0	0.4524	1.6411	0.1222	0.7420	0.0
11	1.0151	1.7	0.0	0.0	0.0444	0.0	31.0723

---SECTION LOADS SUMMARY---

SECT.	+V(LB/FT)	+M(LB/FT)	+T(LB/FT)	-V(LB/FT)	-M(LB/FT)	-T(LB/FT)	VBM(1-G)	MBM(1-G)	TBM(1-G)
1	2167.05	1.37E+04	-1.66E+04	-6.73E+03	-4.00E+04	-6.71E+03	9.03E+03	2.23E+04	1.72E+04
2	2727.67	1.09E+04	-1.30E+04	-2.27E+04	-8.82E+04	-8.85E+03	7.34E+04	4.66E+04	1.71E+04
3	2168.27	5.41E+03	-1.04E+04	-1.97E+04	-1.47E+05	-6.99E+03	5.44E+04	6.67E+04	1.45E+04
4	2062.30	1.47E+04	-1.31E+04	-1.27E+04	-2.27E+05	-5.36E+03	4.12E+04	1.06E+05	8.19E+03
5	1512.20	6.75E+03	-1.70E+04	-1.21E+04	-2.66E+05	-3.97E+03	3.39E+04	1.55E+05	6.66E+03
6	1491.31	1.01E+04	-1.90E+04	-9.87E+03	-3.13E+05	-1.21E+03	2.16E+04	2.04E+05	4.84E+03
7	1113.96	1.79E+04	-1.65E+04	-6.61E+03	-3.66E+05	-7.96E+03	1.56E+04	2.44E+05	-5.73E+03
8	552.65	1.09E+04	-1.07E+04	-4.27E+03	-3.94E+05	-3.51E+03	1.13E+04	2.82E+05	-3.70E+04
9	611.57	6.11E+03	-1.03E+04	-1.07E+04	-4.27E+05	-1.39E+04	8.79E+03	3.23E+05	-2.17E+04
10	350.77	2.11E+03	-4.17E+03	-2.27E+04	-4.96E+05	-2.71E+04	2.21E+03	3.62E+05	-9.71E+03
11	0.0	0.0	0.0	-1.51E+04	-5.31E+05	-1.51E+04	0.0	3.97E+05	0.0

INCIDENCE ANGLE (DEG) ALPHA = 21.0000 MACH NO = 2.5000/-1.0000

---SECTION DESIGN V-N DATA---

STA	VNU(D)	VNU(A)	VEL(D)	VEL(A)	N-M/IN
1	0.5563	0.5563	0.2677	0.2677	16.3431
2	0.5304	0.5304	0.2661	0.2661	14.7001
3	0.5060	0.5060	0.2565	0.2565	13.1717
4	0.4797	0.4797	0.2461	0.2461	11.3260
5	0.4434	0.4434	0.2312	0.2312	9.6721
6	0.3763	0.3763	0.1957	0.1957	7.4478
7	0.3136	0.3136	0.1536	0.1536	5.5508
8	0.2586	0.2587	0.1021	0.1621	4.1916
9	0.2384	0.2384	0.0980	0.0980	3.0450
10	0.2123	0.2124	0.1690	0.1690	2.0009
11	0.2596	0.2598	0.1588	0.1588	1.7747

---REGT SECTION WEIGHT SUMMARY---

TWT								
1	21613.9931	7962.1602	7146.1875	7836.3842	2456.1284	967.2817	1269.2827	342.5225	5156.2500
10	2289.5322	900.3772	4903.4375	1693.4263	527.1252	123.2061	844.8757	140.2643	1105.0786
19	1136.7469	147.0027	0.5938	1933.3335	75.1815	0.3538	0.0	234.2975	301.5308
28	0.0	6.2732	933.6233	594.7251	387.2681	200.4941	220.7063	69.0210	31.8070
37	263.3538	21.0893	159.6186	29611.6484	29611.6484	0.0	0.0	4.2500	29611.6484
46	21613.9934	1309.7534	5835.8047	722.2954	39.8854	609.1362	3E34.2942	20.0000	605.0210
55	695.8637	605.0210	73.8120	0.0	16.9708				
149	111.8062	0.0	0.0	69.1939	2.7270				

---SECTION (B) WEIGHT SUMMARY---
DELTA NO. #, Vm 967.06

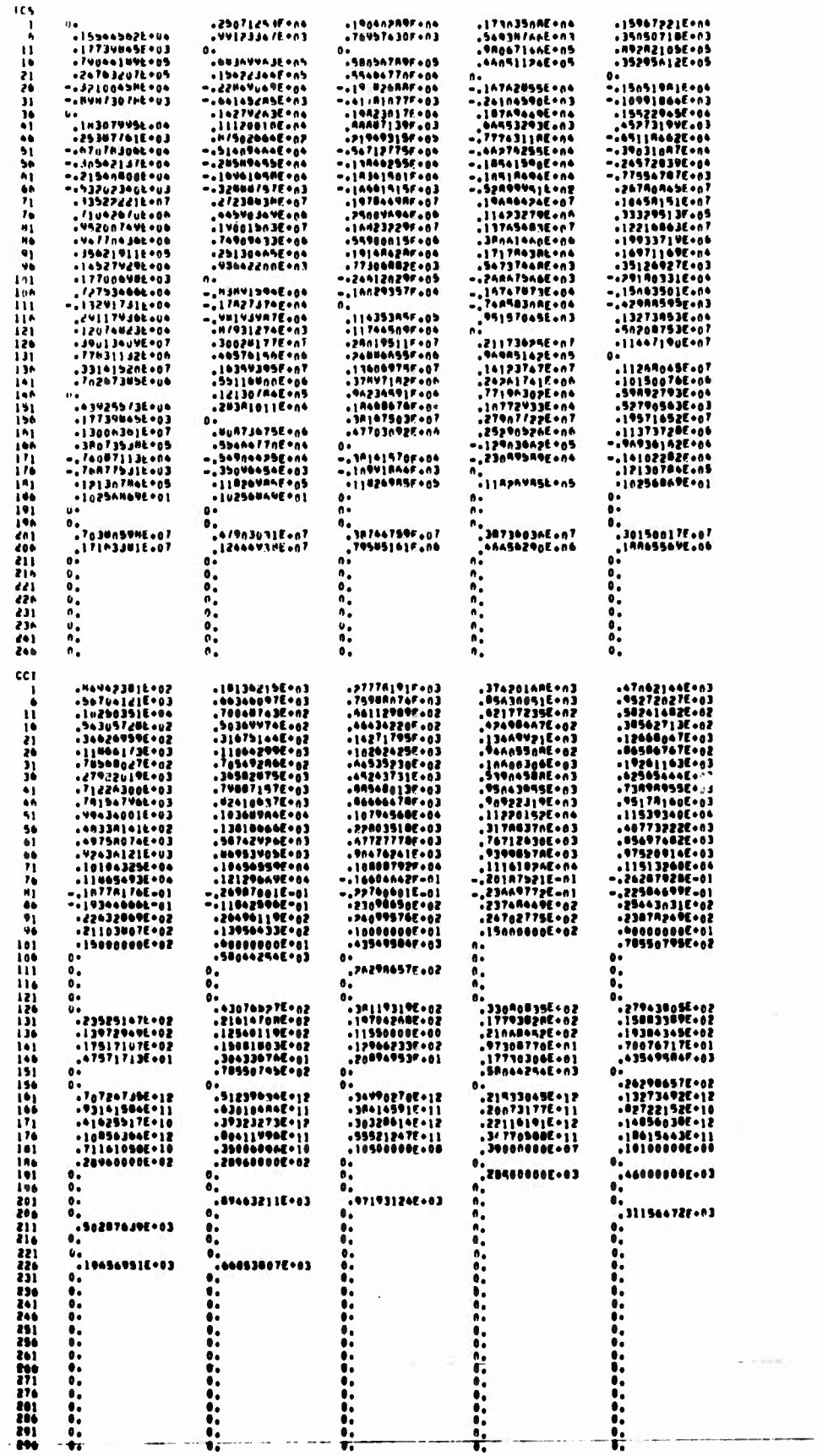
TWT									
1	2980.2988	1171.0017	1044.7751	1101.2800	350.7727	141.1773	191.6427	50.1521	851.8542
10	294.9868	24.1811	844.3831	190.4961	26.4957	22.2735	138.9038	25.9262	166.1165
19	323.7646	98.3654	6.2914	521.2817	59.5331	0.1768	0.0	66.6844	94.6759
28	0.0	2.5197	25.2782	2.5526	2.5526	4.6857	6.6661	0.0	0.0
37	0.0	0.0	0.0	4385.2617	4385.2617	0.0	0.0	4.2500	4389.2617
46	2980.2988	294.1414	1021.9262	106.9577	19.9427	0.0	1101.2800	0.0	0.0
55	0.0	0.0	102.4585	102.4585	19.5886				
149	55.9031	0.0	0.0	34.5970	1.3635				

CASE 1 C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
PAGE 13 C 141 TEST CASE ---NO. 1 ---

IOP1=0 NOGW=1 IGW=2 DGW= 316100.0 N7=+ 2.500/-1.000

-**-SECTION GEOMETRY SUMMARY-**-

SECT.	YSTRC	WIDTH	DAVE	DES	DRS	C-AERO	Y-RU	Y-RL
ROOT	54.942	142.718	43.077	27.915	45.354	366.694	.5505	.4333
2	151.362	134.699	38.119	25.085	39.174	332.474	.5293	.4287
3	277.782	126.680	33.081	22.202	32.924	298.254	.5086	.4207
4	374.202	118.662	27.944	19.248	26.605	264.034	.4671	.3970
5	470.621	110.643	23.525	17.119	20.381	234.787	.4477	.3796
6	567.041	102.624	21.615	15.725	18.730	217.771	.3776	.3166
7	663.461	94.606	19.704	14.332	17.078	200.755	.3146	.2509
8	759.881	86.587	17.794	12.939	15.426	183.739	.2586	.1660
9	856.301	78.568	15.883	11.545	13.775	166.723	.2383	.0981
10	952.720	70.549	13.973	10.152	12.123	149.707	.2127	.1494
TIP	1025.035	64.535	12.540	9.107	10.885	136.945	.2571	.1574



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     ****MODATA SUBR.  MCG AND CTB ARRAYS***                                   ** MODATA - IP(134) *

      IGM= 2

MCG
  1     0.                  .3690064AE+03   0.                  0.                  .9446548AE+03
  6     0.                  0.              .3903237?E+03       0.                  0.
 11      .3343431?E+03      0.              0.                   .37A1077?E+03      0.
 16     0.                   .957940A9E+03  0.                  0.                   .42231356E+03
 21     0.                  0.               .33434310E+03      0.                  0.
 26      .3HH50000E+02      0.              0.                   .A030657AE+03      0.
 31     0.                   .4940HA21E+02  0.                  0.                   .33434310E+03
 36     0.                  0.              0.                  0.                  0.
 41     0.                  0.              0.                  0.                  0.
 46     0. .                0.              0.                  0.                   .36507728E+03
 51     0.                  0.               .9311A5H5E+03      0.                  0.
 56      .3995758?E+03      0.              0.                  -.10A37121E+01      0.
 61     0.                   .3650772AE+03  0.                  0.                   .9311A5H5E+03
 66     0.                  0.               .3995758?E+03      0.                  0.
 71    -.10A37121E+01       0.              0.                   .4536029AE+03      0.
 76     0.                   .8H955?15E+03  0.                  0.                   .4A778297E+03
 81     0.                  0.              .33434310E+03       0.                  0.
 86      .4027A610E+03      0.              0.                   .1052A974E+04      0.
 91     0.                   .4831554AE+03  0.                  0.                   .33434310E+03
 96     0.                  0.               .9473A987E+03      0.                  0.
101      .12037524E+04      0.              0.                   .1042359?E+04      0.
106     0.                  -.15135055E+02  0.                  0.                   .3650772AE+03
111     0.                  0.               .9311A5H5E+03      0.                  0.
116      .3995758?E+03      0.              0.                  -.10A37121E+01      0.
121     0.                  0.              0.                  0.                  0.

CTB=
  1      .2106A452E+02      .193A4365E+02    .17517107F+02       .15AA1803E+02       .12966233E+02
  6      .9730A770E+01      .700767?7F+01    .47571713F+01       .3A433674E+01       .20A94953F+01
 11      .1773?3?6E+01      .4?5495A4E+03    0.                  .7A550795E+02       0.
 16      .5A044254E+03      0.               0.                  0.                  0.
 21     0.                   .2029H857E+02   .7A724735F+12       .5123?934E+12       .34990270F+12
 26      .2153?045E+12      .1327?492E+12    .9?1415A4E+11       .6?0104A4E+11       .3841499?E+11
 31      .2007?177E+11      .A27221?2E+10    .4162?517F+10.      .3972?273E+12       .3032?614E+12
 36      .2211619?E+12      .1A89?03HE+12    .1AA?5?364E+12      .8041199AE+11       .5552?247E+11
 41      .3477?58BE+11      .1A615463F+11    .7?161?58E+10       .35AA?09AE+10.      .1?500000E+0A
 46      .3900?000E+07      .10100000E+00    .19550?78E+04       .17A?60A9E+04       .1575A197E+04
 51      .1350?345E+04      .109745?5E+04    .A?933002E+03       .5A9?0956E+03       .37A29969E+03
 56      .25053215E+03      .14310237E+03    .19550?78E+04       .17A?6049E+04       .1575A197E+04
 61      .1350?345E+04      .109745?5E+04    .A?933002F+03       .5A9?0956E+03       .37A29969E+03
 66      .25053215E+03      .14310237E+03    0.                  0.                  .2A960000E+02
 71     0.                   .2A960000E+02   0.                  0.                  0.
 76     0.                  0.               .6197A026F+00       .7?2A5095E+00       .A?3613A1E+00
 81      .5242413AE+00      .4459?041E+00    .377AA059F+00       .3A?107A7E+00       .2410?297E+00
 A6      .1798?137E+00      .1236?015E+00    .4432574AF-01       0.                  0.
 91     0.                  0.               .3A3253?5F+00       .10A66193E+01       .16A40257E+01
 96      .171A3268E+01      .1315?90AE+01    .46056A17F+00       0.                  .36441?40E+05
101      .33315603E+05      0.               .3126162AF+04       .2364A993E+05       .13997536E+04
106      .7A143957E+04      .A125?56AF+03    .?9A85117E+02       .6195?5A9E+03       .12706219E+04
111     0.                  0.               0.                  0.                  0.
116     0.                  0.               0.                  0.                  0.
121     0.                  0.               0.                  0.                  0.
126     0.                  0.               0.                  0.                  0.
131     0.                  0.               .14779152F+00       .31?92119E+00       .20072593E+01
136     0.                   .22000000E+02   .15735188F+00       .66215?33E+00       .?5512738E-02
141      .2093?9?2E+07      .7101?593E+07    .A4145A41E+01       0.                  .11526965E+01
146      .5623?055E+00      .64145A41E+01    .40000000F-01       .2013371AE+02       .64145A41E+01
```

1 WEIGHT SUMMARY. ** PRTD **

-***-TOTAL WING STIFFENEL SKIN/MULTI-RIB-***-

TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973

TEST CASE ---NO. 1 ---

-****-TOTAL WEIGHT SUMMARY-****-

	WEIGHT--LB/AV			*UNIT WEIGHT--LI/SF*			*C.G.--RP*			*C.G.--FS*			*AREA*
	GW(1)	GW(2)	GW(3)	GW(1)	GW(2)	GW(3)	GW(1)	GW(2)	GW(3)	GW(1)	GW(2)	GW(3)	SF/AV
[illegible]***	0.0	32045.8	0.0	0.0	10.67	0.0	0.0	371.6	0.0	0.0	691.7	0.0	3002.5
[illegible]*	0.0	29611.6	0.0	0.0	11.10	0.0	0.0	399.0	0.0	0.0	963.4	0.0	2667.6
[illegible]*	0.0	2434.2	0.0	0.0	10.07	0.0	0.0	38.6	0.0	0.0	803.1	0.0	241.7
PIVOT	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	

-**-OUTER PANEL COMPONENTS-**-

[illegible]-BOX/	0.0	21614.0	0.0	0.0	15.98	0.0	0.0	391.3	0.0	0.0	942.7	0.0	1352.6
[illegible]. /	0.0	1399.8	0.0	0.0	4.44	0.0	0.0	453.6	0.0	0.0	899.6	0.0	315.2
[illegible]. /	0.0	5835.8	0.0	0.0	5.28	0.0	0.0	411.6	0.0	0.0	1056.7	0.0	1105.9
[illegible] /	0.0	39.9	0.0	0.0	0.97	0.0	0.0	947.4	0.0	0.0	1203.8	0.0	41.2
[illegible]./	0.0	722.2	0.0	0.0	0.27	0.0	0.0	391.3	0.0	0.0	942.7	0.0	2667.6
[illegible]	0.0	3834.3	0.0										
[illegible]	0.0	28.0	0.0										

[illegible]= 0.0 TOGW(2)= 316100.0 TOGW(3)= 0.0 *NZ= 2.500 *NZG= 0.0 FL(TOT)=116940.0 MATL NO= 6

[illegible]= 0.0 OGW(2)= 316100.0 OGW(3)= 0.0 -NZ= 1.000 -NZG= 0.0 FL(OFS)=116939.9 YCP= 418.6

CASE 1 -***-[illegible] TECHNOLOGY DETAIL WEIGHTS-***- ** PRTD - IP(37) **

	-**-TOTAL SURFACE-**-			-**-OUTER PANEL-**-			-**-CENTER-SECTION-**-		
	GW(1)	GW(2)	GW(3)	GW(1)	GW(2)	GW(3)	GW(1)	GW(2)	GW(3)
TOGW-LB/**	0.0	24047.1	0.0	0.0	21614.0	0.0	0.0	2434.2	0.0
UPPER COVER	0.0	[illegible]	0.0	0.0	7942.2	0.0	0.0	911.0	0.0
SKINS	0.0	[illegible]	0.0	0.0	5350.7	0.0	0.0	536.3	0.0
STRG.	0.0	2647.5	0.0	0.0	2285.5	0.0	0.0	347.0	0.0
MISC. SK.	0.0	310.0	0.0	0.0	306.4	0.0	0.0	15.6	0.0
LOWER COVER	0.0	7813.1	0.0	0.0	7134.2	0.0	0.0	688.9	0.0
SKINS	0.0	5306.1	0.0	0.0	4902.4	0.0	0.0	403.4	0.0
STRG.	0.0	1860.4	0.0	0.0	1693.4	0.0	0.0	267.5	0.0
MISC. SK.	0.0	646.6	0.0	0.0	527.3	0.0	0.0	18.1	0.0
RIBS	0.0	4491.0	0.0	0.0	3944.6	0.0	0.0	547.4	0.0
INTERM.	0.0	2611.7	0.0	0.0	2401.1	0.0	0.0	209.5	0.0
BULKHEALS	0.0	933.4	0.0	0.0	933.4	0.0	0.0	0.0	0.0
RT/C-L	0.0	946.4	0.0	0.0	608.0	0.0	0.0	337.9	0.0
FRONT SPAR	0.0	1068.5	0.0	0.0	967.3	0.0	0.0	101.2	0.0
CAPS	0.0	122.7	0.0	0.0	113.2	0.0	0.0	9.5	0.0
WEB	0.0	935.8	0.0	0.0	844.1	0.0	0.0	91.8	0.0
REAR SPAR	0.0	1324.1	0.0	0.0	1245.3	0.0	0.0	78.8	0.0
CAPS	0.0	150.9	0.0	0.0	140.2	0.0	0.0	10.6	0.0
WEB	0.0	1173.3	0.0	0.0	1105.1	0.0	0.0	68.2	0.0
MISC. ATT.	0.0	409.9	0.0	0.0	362.5	0.0	0.0	47.4	0.0
STOKE FTG.	0.0	28.0	0.0	0.0	28.0	0.0			

	-**-LEADING EDGE-**-				-**-TRAILING EDGE-**-		
FIXED STR	0.0	1594.0	0.0	*FIXED STR*	0.0	1952.5	0.0
DEV. NO. 1	0.0	0.0	0.0	*T.E. FLAPS*	0.0	2414.7	0.0
DEV. NO. 2	0.0	0.0	0.0	*SPOILERS*	0.0	725.3	0.0
DEV. NO. 3	0.0	0.0	0.0	*AILERONS*	0.0	743.3	0.0

-**-FLUTTER STIFFNESS SUMMARY--OUTER-PANEL-**-

	UPPER COVER			LOWER COVER			FIES, SPARS, ATT.		
COV-U./-L.//I.S.	0.0	1285.4	0.0	0.0	2016.9	0.0	0.0	0.0	0.0
SK.-U./-L.//F.S.	0.0	1139.1	0.0	0.0	1933.3	0.0	0.0	234.3	0.0
STR-U./-L.//A.S.	0.0	147.0	0.0	0.0	79.2	0.0	0.0	301.5	0.0
M.SK.-U/-L//A.A.	0.0	0.0	0.0	0.0	0.4	0.0	0.0	6.2	0.0

-**-TONGUE-AND WEIGHT DISTRIBUTION SUMMARY--CTHI ARRAY-**- ** WNDATA = IP(19) *

CTHI					
1	0.	.2507125E+04	.1904027E+04	.1730750E+04	.1594722E+04
6	.1554453E+00	.9912336E+03	.7495763E+03	.5493477E+03	.3505071E+03
11	.1773945E+03	0.	0.	.9884716E+05	.8928210E+05
16	.7900641E+05	.6833497E+05	.5805678E+05	.4685113E+05	.3529554E+05
21	.2670320E+05	.1562236E+05	.5554047E+04	0.	0.
26	-.4210065E+04	-.2284970E+04	-.1918724E+04	-.1476288E+04	-.1504519E+04
31	-.9491730E+03	-.8461652E+03	-.6617817E+03	-.2611659E+03	-.1099196E+03
36	0.	.1627924E+04	.1942301E+04	.1879406E+04	.1554220E+04
41	.1430744E+04	.1112001E+04	.8848871E+03	.6883293E+03	.4527119E+03
46	.2533477E+03	.1759202E+02	.2149931E+05	-.7776311E+04	-.4511946E+04
51	-.4707835E+04	-.5140944E+04	-.5471277E+04	-.4427825E+04	-.1983104E+04
56	-.3050213E+04	-.2853945E+04	-.1784625E+04	-.1856159E+04	-.2457239E+04
61	-.2159AA0E+04	-.1094105E+04	-.1831501E+04	-.1451A04E+04	-.7755478E+03
66	-.5320234E+03	-.3288878E+03	-.1866151E+03	-.5289945E+02	.2478804E+04
71	.3352222E+07	.2723483E+07	.1978664E+07	.1948426E+07	.1045815E+07
76	.7106207E+06	.4659034E+06	.2541094E+06	.1162327E+06	.3332451E+05
81	.9526076E+04	.1940153E+07	.1441232E+07	.1176A48E+07	.1221684E+07
86	.9677A43E+04	.7690443E+04	.5994004E+06	.3A0A1A6E+04	.1943371E+06
91	.3502191E+05	.2513044E+04	.1916A42E+04	.1717A43E+04	.1697116E+04
96	.1652794E+04	.9884422E+03	.7731688E+03	.5673744E+03	.3512802E+03
101	.1770084E+03	0.	-.2A4127E+05	-.2AAA75AE+03	-.2918033E+04
106	.7275344E+04	-.8134915E+04	-.1A02935E+04	-.1A747873E+04	-.1506350E+04
111	-.1329173E+04	-.1742737E+04	0.	-.7484A30E+04	-.4298A595E+03
116	.2911794E+04	-.9814394E+05	.1143534E+05	.9914706E+03	.1327395E+04
121	.1207A23E+04	.8793127E+03	.1174459E+04	0.	.5020A753E+07
126	.3401364E+07	.3402817E+07	.2A01951E+07	.2117302E+07	.1144719E+07
131	.7743112E+06	.4057019E+06	.2A8A6A5E+06	.9A0A514E+05	0.
136	.8314152E+07	.1035939E+07	.1360675E+07	.1612376E+07	.1126A1A5E+07
141	.7A2673A5E+06	.5511A0A0E+06	.3749712E+06	.2A2A174E+06	.1015407E+06
146	0.	.1213074A6E+05	.9623A591E+04	.7719A3A2E+04	.5984279E+04

-**-LEADING EDGE WEIGHT DISTRIBUTION SUMMARY--CLEI ARRAY-**- ** WNDATA = IP(19) *

CLEI					
1	.3A9054U1E+02	.9210AA07E+02	.8AA04678E+02	.82A0A8A9E+02	.7580A262E+02
6	.7A417708E+02	.A529590AE+02	.A000475AE+02	.954A81ABE+02	.8935A22E+02
11	.2579103E+02	0.	.2447A826E+04	.441A3033E+04	.4147222E+04
16	.3955A30E+04	.3049223AE+04	.9757197E+04	.3A8491A5E+04	.2814625E+04
21	.2042574E+04	.2372A817E+04	.7149A9A9E+03	0.	.10A1A05E+04
26	.7338375E+04	.4A967AAE+04	.5778722E+04	.497A8303E+04	.4312705E+04
31	.3704320E+04	.3123947E+04	.2844A975E+04	.2115A07E+04	.1011119E+04
36	0.	.4A5A113E+03	.A982543E+02	.8A31A41E+02	.7876A62E+02
41	.7335949E+02	.6731675E+02	.A295A929E+02	.5706214E+02	.5197594E+02
46	.4161044E+02	.4A3A7071E+01	.1973A21E+03	-.9A0A4001E+02	-.6426726E+02
51	-.5178775E+02	-.5947A7AAE+02	-.1A13739AE+03	-.1341A726E+03	-.1033A269E+03
56	-.AA11035E+02	-.3199A517E+03	-.2511972E+03	.67A1925E+04	.69A774A5E+04
61	.6130745E+04	.5370073E+04	.4AA18473E+04	.3073035E+04	.3429A910E+04
66	.2AA9355E+04	.2355A021E+04	.1A9364A5E+04	.3543A55E+03	.54A9A317E+04
71	.5475045E+06	.4535A17E+04	.3721462E+06	.3004A225E+06	.2380A76E+06
76	.1895560E+06	.1454A36E+06	.1A0A36A2E+06	.7A72143E+05	.1372A58E+05
81	.5726AA0E+05	.7493A425E+05	.4A98A80E+05	.6317934AE+05	.5A2135A2E+05
86	.5217134E+05	.5A08B50E+05	.4A457190E+05	.4A5A9711E+05	.2745351E+05
91	.7167385E+04	.4A0A354E+02	.9A528962E+02	.A4074376E+02	.7941785E+02
96	.7340619E+02	.6831A0AE+02	.6A2756A2E+02	.572A1412E+02	.5144A9AE+02
101	.3504994E+02	0.	-.4A537A9AE+02	-.4A10A891E+02	-.3990243E+02
106	-.3906411E+02	-.3963874E+02	-.3927130E+02	-.3914080AE+02	-.3906525E+02
111	-.3902665E+02	-.4027287E+03	0.	.A5AA7625E+04	.7604A775E+04
116	.6705A9AE+04	.5860314E+04	.5073551E+04	.4362154AE+04	.3A699A5AE+04
121	.3052398E+04	.2494A63E+04	.1702391E+04	0.	.7919A31E+04
126	.6638B153E+06	.5507A8AAE+06	.4513402E+06	.3651104AE+06	.2907AAA7E+06
131	.2270178E+06	.1742A70DE+06	.1304A5A5E+06	.8A6544A9E+05	0.
136	.A6434105E+05	.4203394AE+05	.3733778E+05	.5207A972E+05	.4890047E+05
141	.4507174E+05	.4127940A3E+05	.3752A479E+05	.3370187E+05	.1757A611E+05
146	0.	0.	0.	0.	0.

-**-TRAILING EDGE WEIGHT DISTRIBUTION SUMMARY--CTEI ARRAY-**- ** WNDATA = IP(19) *

CTEI					
1	0.	.2047614E+03	.7951102E+03	.6340539E+03	.4921050E+03
6	.3624423E+03	.3492827E+03	.2863034E+03	.2407127E+03	.2237A82E+03
11	.1675A63E+03	.3990134E+02	0.	.1977351E+05	.3577723E+05
16	.2942047E+05	.2260252E+05	.1A077036E+05	.1455714E+05	.1254541E+05
21	.1185A193E+05	.1050884E+05	.5260137E+04	.4386159E+03	0.
26	-.2841095E+05	-.3143123E+05	-.6795A37E+05	-.4521439E+05	-.2920014E+05
31	-.2A68984E+05	-.1945775E+05	-.1A0941F5E+05	-.1290529E+05	-.7453184E+04
36	-.2042528E+04	.1701692E+02	.6148162E+03	.7017425E+03	.5829715E+03
41	.4082734E+03	.3882318E+03	.3307446E+03	.2543807E+03	.2371392E+03
46	.1895144E+03	.1132A906E+03	.7212369E+03	.4246671E+04	-.1410971E+04
51	-.1A6458E+04	-.1820501E+04	-.4798A063E+03	-.5474A13E+03	-.5131735E+03
56	-.4A8A38E+03	-.1428A3E+04	-.9198A919E+03	-.1412752E+04	-.7A867565E+04
61	-.A958A302E+05	-.5591404E+05	-.3A617A30E+05	-.2A7A40A2E+05	-.2350002E+05
66	-.1676A625E+05	-.1452724E+05	-.1015246E+05	-.5731559A3E+04	.1208A198E+06
71	.9668712E+07	.1010A702E+08	.5090342E+07	.3133747E+07	.2363184E+07
76	.1762913E+07	.1171979E+07	.9413802E+06	.5A0A2006E+06	.3066367E+06
81	.3174A968E+05	.4A56873E+06	.5A536474E+06	.4444A3A7E+06	.3446914E+06
86	.2A972228E+06	.2582A94E+06	.2104322E+06	.1855595AE+06	.1231314E+06
91	.4A8052E+05	.6934A007E+03	.6529A6A1E+03	.5343B17E+03	.3A196825E+03
96	.3620510E+03	.3278514E+03	.2A09532E+03	.23A0134E+03	.2088579E+03
101	.1388209E+03	0.	.1774A95E+04	-.8AA86176E+03	-.8666A67E+03
106	-.1289939E+04	-.2A678A6E+03	-.2A39A69E+03	-.A667418E+03	-.1922781E+03
111	-.1922A01E+03	-.1A09A02E+04	0.	-.9A37588E+05	-.7926A20E+05
116	-.9A703A0E+05	-.3586A91E+05	-.3A93A513E+05	-.2561236E+05	-.1869A56E+05
121	-.1A0822E+05	-.1284330E+05	-.8878812E+04	0.	.1403978E+08
126	.1A629025E+08	.8454A93E+07	.3503A63E+07	.2A109922E+07	.2131465E+07
131	.1445520E+07	.1162A86E+07	.8A3807A8E+06	.3A9161A6E+06	0.
136	.0290A712E+06	.4300E937E+06	.3944A991E+06	.2A882381E+06	.2377763E+06
141	.2149234E+06	.1818A567E+06	.1540382E+06	.1341252E+06	.6962180E+05
146	0.	0.	0.	0.	0.

---MISC. STRUCTURE AND CONTENTS WEIGHT DISTRIBUTION SUMMARY---CMII ARRAY--- ** NODATA = IP(194) *

CMII					
1	0.	.9242[illegible]E+02	.1459[illegible]E+03	.1307[illegible]E+03	.1154[illegible]E+03
6	.1008[illegible]E+03	.9[illegible]E+02	.7[illegible]E+02	.5[illegible]E+02	.3[illegible]E+02
11	.1[illegible]E+02	.2[illegible]E+02	0.	.6[illegible]E+04	.4[illegible]E+04
16	.4[illegible]E+04	.5[illegible]E+04	.6[illegible]E+04	.3[illegible]E+04	.1[illegible]E+04
21	.2[illegible]E+04	.1[illegible]E+04	.[illegible]E+03	.4[illegible]E+03	0.
26	-.[illegible]E+05	-.1[illegible]E+05	-.1[illegible]E+05	-.[illegible]E+04	-.[illegible]E+04
31	-.[illegible]E+04	-.3[illegible]E+04	-.2[illegible]E+04	-.1[illegible]E+04	-.7[illegible]E+03
36	-.[illegible]E+03	.1[illegible]E+03	.1[illegible]E+03	.1[illegible]E+03	.1[illegible]E+03
41	.1[illegible]E+03	.9[illegible]E+02	.7[illegible]E+02	.[illegible]E+02	.[illegible]E+02
46	.2[illegible]E+02	.[illegible]E+02	.[illegible]E+03	.[illegible]E+03	-.1[illegible]E+03
51	-.1[illegible]E+03	-.1[illegible]E+03	-.1[illegible]E+03	-.[illegible]E+03	-.[illegible]E+03
56	-.[illegible]E+03	-.2[illegible]E+03	.2[illegible]E+03	-.1[illegible]E+04	-.1[illegible]E+04
61	-.1[illegible]E+04	-.9[illegible]E+03	-.7[illegible]E+03	-.5[illegible]E+04	-.[illegible]E+04
66	-.3[illegible]E+04	0.	-.[illegible]E+04	.8[illegible]E+04	.[illegible]E+04
71	.1[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
76	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
81	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
86	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
91	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
96	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
101	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
106	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
111	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
116	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
121	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
126	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
131	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
136	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
141	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
146	0.	.[illegible]E+02	.[illegible]E+01	.[illegible]E+03	0.

---FUEL CELL 1 WEIGHT DISTRIBUTION SUMMARY--CPLII ARRAY--- ** NODATA = IP(194) *

CPLII					
1	0.	.[illegible]E+05	.[illegible]E+05	.[illegible]E+04	0.
6	0.	0.	0.	0.	0.
11	0.	0.	0.	.[illegible]E+04	.[illegible]E+04
16	.[illegible]E+05	0.	0.	0.	0.
21	0.	0.	0.	0.	0.
26	-.[illegible]E+04	-.[illegible]E+04	-.[illegible]E+04	0.	0.
31	0.	0.	0.	0.	0.
36	0.	.[illegible]E+04	.[illegible]E+03	.[illegible]E+05	0.
41	0.	0.	0.	0.	0.
46	0.	0.	.[illegible]E+03	-.[illegible]E+05	-.[illegible]E+04
51	0.	0.	0.	0.	0.
56	0.	0.	0.	-.[illegible]E+04	-.[illegible]E+04
61	-.[illegible]E+04	0.	0.	0.	0.
66	0.	0.	0.	0.	0.
71	.[illegible]E+04	.[illegible]E+04	0.	0.	0.
76	0.	0.	0.	0.	0.
81	.[illegible]E+07	.[illegible]E+04	.[illegible]E+07	0.	0.
86	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.
96	0.	0.	0.	0.	0.
101	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
116	.[illegible]E+04	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
126	.[illegible]E+04	.[illegible]E+07	0.	0.	0.
131	0.	0.	0.	0.	0.
136	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.

---FUEL CELL 2 WEIGHT DISTRIBUTION SUMMARY--CPLII ARRAY--- ** NODATA = IP(194) *

CPL2I					
1	0.	0.	0.	0.	.[illegible]E+04
6	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
11	.[illegible]E+04	0.	0.	0.	0.
16	0.	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
21	.[illegible]E+04	.[illegible]E+04	.[illegible]E+05	0.	0.
26	0.	0.	0.	-.[illegible]E+04	-.[illegible]E+04
31	-.[illegible]E+04	-.[illegible]E+04	-.[illegible]E+04	-.[illegible]E+04	-.[illegible]E+04
36	0.	0.	0.	0.	0.
41	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
46	.[illegible]E+04	.[illegible]E+03	0.	0.	0.
51	0.	.[illegible]E+04	-.[illegible]E+04	-.[illegible]E+04	-.[illegible]E+04
56	.[illegible]E+03	-.[illegible]E+05	-.[illegible]E+05	0.	0.
61	0.	0.	-.[illegible]E+04	-.[illegible]E+04	-.[illegible]E+04
66	-.[illegible]E+04	-.[illegible]E+04	-.[illegible]E+04	-.[illegible]E+03	0.
71	0.	0.	0.	.[illegible]E+07	.[illegible]E+07
76	.[illegible]E+07	.[illegible]E+07	.[illegible]E+07	.[illegible]E+07	.[illegible]E+07
81	0.	0.	0.	0.	.[illegible]E+07
86	.[illegible]E+07	.[illegible]E+07	.[illegible]E+07	.[illegible]E+07	.[illegible]E+07
91	.[illegible]E+08	0.	0.	0.	.[illegible]E+04
96	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
101	.[illegible]E+04	0.	0.	0.	0.
106	.[illegible]E+05	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
111	-.[illegible]E+04	-.[illegible]E+05	0.	0.	0.
116	0.	-.[illegible]E+05	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04
121	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	0.	0.
126	0.	0.	.[illegible]E+07	.[illegible]E+07	.[illegible]E+07
131	.[illegible]E+07	.[illegible]E+07	.[illegible]E+07	.[illegible]E+06	0.
136	0.	0.	0.	.[illegible]E+07	.[illegible]E+07
141	.[illegible]E+07	.[illegible]E+07	.[illegible]E+07	.[illegible]E+07	.[illegible]E+07
146	0.	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04	.[illegible]E+04

-**-EXTERNAL CONC. MASS WEIGHT DISTRIBUTION SUMMARY--CCDLI ARRAY-**- ** WODATA - IP(98) *

CCDLI					
1	.7888888E+04	.31156472E+03	.14708835F+03	.83888888E+02	.27387211E+08
6	.47824888E+07	.27387211E+08	.28588888F+03	.74796376E+03	.83888888E+02
11	.29214202E+03	.13452897E+03	.78888888F+04	.502A7639E+03	.13734218E+03
16	.81888888E+02	.27387211E+08	.47824888F+07	.27387211E+08	.46888888E+03
21	.b365A98AE+03	.A1888888F+02	.44738356F+03	.1294328AE+03	0.
26	0.	0.	0.	0.	0.
31	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.
61	0.	0.	0.	0.	0.
66	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	.10888888E+01
86	.10888888E+01	0.	0.	0.	0.
91	0.	.2A968888E+02	.2A968888E+02	0.	0.
96	0.	0.	0.	0.	.2858A888E+03
101	.6A888888E+03	0.	0.	0.	0.
106	0.	0.	.A9403211E+03	.97103124E+03	0.
111	0.	0.	0.	0.	0.
116	.31156472E+03	.502A7639E+03	0.	0.	0.
121	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
131	0.	.19656951E+03	.44853887E+03	0.	0.
136	0.	0.	0.	0.	.19942558E+02
141	.2b688126E+02	.9877034BE+08	.94738887E+03	.12A375288E+04	.10423591E+04
146	-.15135955E+02	.38643832E+05	.10273332F+04	.2A465978E+05	.13321243E+05

** WODATA - IP(98) *

-**-I(O)YAW DATA FOR TU.LE.TE.MISC.CDL.FL).FL2.(FLEX LOADS. AERO SYSTEM)--CIOY ARRAY-**-

CIOY					
1	.7b3Ab598E+07	.47983811E+07	.3A744759E+07	.38738838E+07	.38158817E+07
6	.17163381E+07	.12444938E+07	.79585161E+08	.44A56298E+08	.18845569E+08
11	.84988848E+08	.71922785E+08	.4A3559138F+08	.9813A899E+A8	.41197373E+08
16	.33423B78E+08	.28769828E+0A	.21892652E+08	.16161938E+08	.10389605E+08
21	.1462768AE+08	.10839232E+0A	.47931574E+07	.37627928E+07	.30425799E+07
26	.23e19702E+07	.18242352E+07	.13148216F+07	.9585229iE+06	.43797583E+06
31	.14881425E+07	.11161167E+07	.91849784F+06	.697A4257E+0A	.52036A56E+06
36	.37479559E+06	.25781954E+0A	.16606A08F+06	.9b60^545E+05	.16030918E+06
41	0.	.2A33287AE+08	.23017534F+09	.28745B36E+08	.28829189E+09
46	0.	0.	0.	0.	0.
51	.A09876B7E+08	.A022e425E+08	.14119437E+08	0.	0.
56	0.	0.	0.	0.	0.
61	0.	0.	0.	.4234524IE+07	.11786771E+08
66	.9328B3B3E+07	.7213504BE+07	.5303421SE+07	.3A0996799E+07	.21303621E+07
71	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.
96	0.	0.	0.	0.	0.
101	0.	0.	0.	0.	0.
106	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
116	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
136	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.

CASE 1 -**-SURFACE INERTIA SUMMARY-**- ** WODATA - IP(36) **

TOTAL EXPOSED PANEL INERTIA ABOUT SURFACE CENTER-LINE AT F.S. 444.0E

LB/AV	FUS/STA	Y/PLANE	W/PLANE	I/PITCH(LB-IN**2)	I/ROLL(LB-IN**2)	I/YAW(LB-IN**2)
180501.7	444.6F	0.0	0.0	0.31211144F+10	0.34312F15+11	0.27000F64F+11

PANEL INERTIA ABOUT EXPOSED PANEL CG---PER SIDE

ITEM	LB/SIDE	FUS/STA	Y/PLANE	W/PLANE	I/PITCH(LB-IN**2)	I/ROLL(LB-IN**2)	I/YAW(LB-IN**2)
STRUCT*	147d5.9	4,5.6-	295.75	0.0	0.21CA6926E+09	0.72E97382E+09	0.936542B8E+09
MISC**	16496.5	1[4a.75	274.55	0.0	0.291CB147E+08	0.32831475F+09	0.40557773E+09
FUEL	59171.0	530.41	262.47	0.0	0.E141772BF+09	0.3B5CBE72F+10	0.44754739E+10
TOTAL	9(454.1	444.6)	270.FF	0.0	0.15AC5173F+10	0.473407088+10	0.E0781773F+10

NOTE--*DOES NOT INCLUDE C-SEC (R FIVE).
-**TIP PANEL MASS DATA INCLUDED WITH MISC CONTENTS.

-oo-PANEL INERTIA SUMMARY. FLEX LOADS (AERO) SYSTEM--CCI ARRAY-oo- oo WDATA = IP(9H) o

CCI					
1	.4230644[illegible]E+05	.2011[illegible]E+05	.176397[illegible]E+05	.133[illegible]E+05	.4814629[illegible]E+04
6	.1448[illegible]E+05	.6538[illegible]E+04	.5408[illegible]E+04	.4[illegible]E+04	.3384[illegible]E+04
11	.2249[illegible]E+04	.3674[illegible]E+03	.1148[illegible]E+03	.2[illegible]E+03	.2830[illegible]E+03
16	.4154[illegible]E+03	.4670[illegible]E+03	.5613[illegible]E+03	.6493[illegible]E+03	.7376[illegible]E+03
21	.8255[illegible]E+03	.9078[illegible]E+03	.9852[illegible]E+03	.8[illegible]E+03	.8654[illegible]E+03
26	.9815[illegible]E+03	.9470[illegible]E+03	.1041[illegible]E+04	.1014[illegible]E+04	.1053[illegible]E+04
31	.1092[illegible]E+04	.1131[illegible]E+04	.1174[illegible]E+04	.1595[illegible]E+10	.4940[illegible]E+08
36	.7345[illegible]E+08	.1784[illegible]E+09	.4152[illegible]E+08	.1780[illegible]E+09	.9530[illegible]E+07
41	.4795[illegible]E+07	.4762[illegible]E+07	.3146[illegible]E+07	.1408[illegible]E+07	.4797[illegible]E+10
46	.1892[illegible]E+08	.3148[illegible]E+08	.7897[illegible]E+08	.1990[illegible]E+08	.7568[illegible]E+08
51	.4482[illegible]E+07	.3706[illegible]E+07	.2915[illegible]E+07	.2241[illegible]E+07	.1183[illegible]E+07
56	.9175[illegible]E+10	.7102[illegible]E+08	.8556[illegible]E+08	.1649[illegible]E+09	.3745[illegible]E+08
61	.1877[illegible]E+09	.1401[illegible]E+08	.1056[illegible]E+08	.7759[illegible]E+07	.5464[illegible]E+07
66	.2839[illegible]E+07	.1063[illegible]E+05	.3302[illegible]E+04	.2458[illegible]E+04	.2337[illegible]E+04
71	.2185[illegible]E+04	.1884[illegible]E+04	.1382[illegible]E+04	.1094[illegible]E+04	.8405[illegible]E+03
76	.9117[illegible]E+03	.3909[illegible]E+03	.3780[illegible]E+03	.1148[illegible]E+03	.2095[illegible]E+03
81	.2965[illegible]E+03	.3891[illegible]E+03	.4699[illegible]E+03	.5614[illegible]E+03	.6488[illegible]E+03
86	.7370[illegible]E+03	.8240[illegible]E+03	.9048[illegible]E+03	.9172[illegible]E+03	.7942[illegible]E+03
91	.8343[illegible]E+03	.8803[illegible]E+03	.9210[illegible]E+03	.9707[illegible]E+03	.1002[illegible]E+04
96	.1043[illegible]E+04	.1081[illegible]E+04	.1119[illegible]E+04	.1141[illegible]E+04	.2322[illegible]E+09
101	.1721[illegible]E+08	.1303[illegible]E+08	.9059[illegible]E+07	.6025[illegible]E+07	.5183[illegible]E+07
106	.3268[illegible]E+07	.2280[illegible]E+07	.1638[illegible]E+07	.1042[illegible]E+07	.5072[illegible]E+06
111	.8041[illegible]E+09	.3848[illegible]E+07	.2134[illegible]E+07	.1744[illegible]E+07	.1717[illegible]E+07
116	.1373[illegible]E+07	.9800[illegible]E+06	.7693[illegible]E+06	.5649[illegible]E+06	.4045[illegible]E+06
121	.1478[illegible]E+06	.1032[illegible]E+10	.1952[illegible]E+08	.1439[illegible]E+08	.1031[illegible]E+08
126	.7389[illegible]E+07	.6319[illegible]E+07	.4[illegible]E+07	.2940[illegible]E+07	.2153[illegible]E+07
131	.1444[illegible]E+07	.6639[illegible]E+06	.1449[illegible]E+05	.1951[illegible]E+03	.1304[illegible]E+04
136	.6782[illegible]E+04	.1394[illegible]E+04	.6611[illegible]E+04	.7919[illegible]E+02	.4477[illegible]E+02
141	.5035[illegible]E+02	.3593[illegible]E+02	.1978[illegible]E+02	.3763[illegible]E+03	.1212[illegible]E+03
146	.2770[illegible]E+03	.2852[illegible]E+03	.4542[illegible]E+03	.4401[illegible]E+03	.5614[illegible]E+03
151	.6493[illegible]E+03	.7370[illegible]E+03	.8244[illegible]E+03	.9272[illegible]E+03	.1064[illegible]E+04
156	.7282[illegible]E+03	.9542[illegible]E+03	.1049[illegible]E+04	.1030[illegible]E+04	.1119[illegible]E+04
161	.9541[illegible]E+03	.9993[illegible]E+03	.1044[illegible]E+04	.1090[illegible]E+04	.1139[illegible]E+04
166	.2910[illegible]E+09	.2027[illegible]E+05	.2124[illegible]E+08	.9894[illegible]E+08	.2077[illegible]E+08
171	.9268[illegible]E+08	.8431[illegible]E+04	.4455[illegible]E+04	.5047[illegible]E+04	.3551[illegible]E+04
176	.3247[illegible]E+05	.3383[illegible]E+09	.1022[illegible]E+08	.1344[illegible]E+08	.7320[illegible]E+08
181	.1441[illegible]E+08	.6969[illegible]E+08	.5204[illegible]E+05	.4232[illegible]E+05	.3274[illegible]E+05
186	.2318[illegible]E+05	.2730[illegible]E+05	.4055[illegible]E+09	.1117[illegible]E+04	.1240[illegible]E+08
191	.8051[illegible]E+08	.1144[illegible]E+08	.7644[illegible]E+08	.5876[illegible]E+05	.4798[illegible]E+05
196	.3718[illegible]E+05	.2836[illegible]E+05	.5910[illegible]E+05	.5917[illegible]E+05	.1666[illegible]E+05
201	.1367[illegible]E+05	.4228[illegible]E+04	.1246[illegible]E+04	.5048[illegible]E+04	.5078[illegible]E+04
206	.4245[illegible]E+04	.3447[illegible]E+04	.2736[illegible]E+04	.1878[illegible]E+04	.3624[illegible]E+03
211	.1189[illegible]E+03	.2083[illegible]E+03	.2722[illegible]E+03	.4179[illegible]E+03	.4737[illegible]E+03
216	.5612[illegible]E+03	.6495[illegible]E+03	.7977[illegible]E+03	.8256[illegible]E+03	.9048[illegible]E+03
221	.9304[illegible]E+03	.8155[illegible]E+03	.8630[illegible]E+03	.9307[illegible]E+03	.8990[illegible]E+03
226	.4789[illegible]E+03	.1018[illegible]E+04	.1057[illegible]E+04	.1094[illegible]E+04	.1135[illegible]E+04
231	.1170[illegible]E+04	.8141[illegible]E+09	.2986[illegible]E+08	.2424[illegible]E+08	.4729[illegible]E+07
236	.6933[illegible]E+06	.7587[illegible]E+07	.5700[illegible]E+07	.4194[illegible]E+07	.2851[illegible]E+07
241	.1886[illegible]E+07	.9386[illegible]E+08	.9850[illegible]E+10	.1514[illegible]E+08	.1002[illegible]E+08
246	.1053[illegible]E+07	.1595[illegible]E+06	.4032[illegible]E+07	.3458[illegible]E+07	.2894[illegible]E+07
251	.2319[illegible]E+07	.1809[illegible]E+07	.9893[illegible]E+06	.4475[illegible]E+10	.4946[illegible]E+08
256	.4015[illegible]E+08	.7391[illegible]E+07	.9871[illegible]E+06	.1177[illegible]E+08	.9313[illegible]E+07
261	.7199[illegible]E+07	.5293[illegible]E+07	.3799[illegible]E+07	.1987[illegible]E+07	-.5407[illegible]E+03
266	-.2229[illegible]E+03	.1846[illegible]E+04	.9520[illegible]E+03	.3674[illegible]E+03	0.
271	.3190[illegible]E+10	.3451[illegible]E+11	.3727[illegible]E+11	0.	0.

** CTOT (CALLED FROM WFLDO) - IP(35) *

TT(1) = 121.797 TT(2) = 0.000

YC					
1	.71142958E+03	.71142958E+03	.74675073E+03	.82254404E+03	.89833735E+03
6	.10057725E+04	.10610145E+04	.34958492E+03	.29434294E+03	.15158662E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.
26	0.	0.	0.	0.	0.
31	0.	.57920000E+02	.28960000E+02	.28960000E+02	0.

TT(1) = 209.992 TT(2) = 0.000

YC					
1	.75680933E+03	.75680933E+03	.79008866E+03	.86150056E+03	.93291245E+03
6	.10341371E+04	.10721756E+04	.31536627E+03	.27732775E+03	.14282379E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.
26	0.	0.	0.	0.	0.
31	0.	.57920000E+02	.28960000E+02	.28960000E+02	0.

TT(1) = 298.187 TT(2) = 0.000

YC					
1	.80218909E+03	.80218909E+03	.83342660E+03	.90045708E+03	.96748756E+03
6	.10625016E+04	.10833367E+04	.28114762E+03	.26031256E+03	.13406097E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.
26	0.	0.	0.	0.	0.
31	0.	.57920000E+02	.28960000E+02	.28960000E+02	0.

TT(1) = 386.382 TT(2) = 0.000

YC					
1	.84756884E+03	.84756884E+03	.87676453E+03	.93941360E+03	.10020627E+04
6	.10908662E+04	.10944978E+04	.24692897E+03	.24329736E+03	.12529814E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.
26	0.	0.	0.	0.	0.

CASE NO. 1 ***FLEXIBLE LOADS GENERAL DATA. GC ARRAY DATA*** ** WELDD **

1	0.317[illegible]E+04	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+06		2	1C 1	
5	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+07	0.[illegible]E+07	0.12616413E+0[illegible]	2	1C 5	
10	0.[illegible]E+06	0.[illegible]E+06	0.[illegible]E+03	0.[illegible]E+01	0.20000000E+01	2	1C 10	
15	-0.[illegible]E+01	0.[illegible]E+01	0.10000000E+01	-0.50000000E+00	0.0	2	1C 15	
20	0.20000000E+05	0.[illegible]E+04	0.[illegible]E+00	0.[illegible]E+00	0.[illegible]E+00	2	1C 20	
25	0.0	0.0	0.0	0.0	0.0	2	1C 25	
30	0.0	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+03	2	1C 30	
35	0.[illegible]E+07	0.[illegible]E+02	0.[illegible]E+02	0.[illegible]E+02	0.[illegible]E+02	2	1C 35	
40	0.[illegible]E+02	0.[illegible]E+03	0.[illegible]E+00	0.[illegible]E+01	0.[illegible]E+04	2	1C 40	
45	0.[illegible]E+03	0.[illegible]E+04	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+03	2	1C 45	
50	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+02	0.[illegible]E+03	2	1C 50	
55	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+00	0.0	0.0	2	1C 55	
60	0.0	0.0	0.0	0.0	0.0	2	1C 60	
65	0.0	0.0	0.0	0.0	0.0	2	1C 65	
70	0.0	0.0	0.0	0.0	0.0	2	1C 70	
75	0.0	0.0	0.0	0.0	0.0	2	1C 75	
80	0.0	0.0	0.0	0.0	0.0	2	1C 80	
85	0.0	0.0	0.0	0.0	0.0	2	1C 85	
90	0.0	0.0	0.0	0.0	0.0	2	1C 90	
95	0.0	0.0	0.0	0.0	0.0	2	1C 95	
100	0.[illegible]E+02	0.[illegible]E+03	0.[illegible]E+00	0.[illegible]E+02	0.[illegible]E+03	2	1C100	
105	0.[illegible]E+02	0.[illegible]E+04	0.[illegible]E+04	0.[illegible]E+03	0.[illegible]E+0[illegible]	2	1C105	
110	0.[illegible]E+01	0.[illegible]E+03	0.[illegible]E+02	0.0	0.0	2	1C110	
115	0.[illegible]E+02	0.[illegible]E+02	0.[illegible]E+02	0.[illegible]E+02	0.15103989E+03	2	1C115	
120	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+03	0.29452754E+03	2	1C120	
125	0.[illegible]E+00	0.0	0.0	0.0	0.0	2	1C125	
130	0.0	0.0	0.0	0.0	0.0	2	1C130	
135	0.0	0.0	0.[illegible]E+02	0.3267[illegible]E+02	0.[illegible]E+04	2	1C135	
140	0.[illegible]E+03	0.[illegible]E+00	0.[illegible]E+01	0.[illegible]E+03	0.[illegible]E+02	2	1C140	
145	0.[illegible]E+02	0.[illegible]E+02	0.[illegible]E+02	0.[illegible]E+02	0.[illegible]E+03	2	1C145	
150	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+03	2	1C150	
155	0.[illegible]E+03	0.[illegible]E+03	0.[illegible]E+00	0.[illegible]E+03	0.0	2	1C155	
160	0.0	0.0	0.0	0.0	0.0	2	1C160	
165	0.0	0.[illegible]E+00	0.[illegible]E+00	0.[illegible]E+00	0.0	2	1C165	
170	0.0					2	1C170	

CASE NO. 1 ***FLEXIBLE LOADS INERTIA DATA. GF ARRAY DATA*** ** WELDD **

1	0.[illegible]E+00	0.0				2	1F 1	
3	23.83147	768.74487				2	1F 3	
5	0.19415266E+05	0.17075195E+05	0.12940687E+05	0.4[illegible]E+04	0.14412219E+05	2	1F 5	
10	0.[illegible]E+04	0.[illegible]E+04	0.[illegible]E+04	0.33[illegible]E+04	0.22573250E+04	2	1F 10	
15	0.41156441E+00	0.35971451E+00	0.52803308E-01	0.34152061E+00	0.93785167E-01	2	1F 15	
20	0.38982169E+00	0.38615221E+00	0.36769519E+00	0.38793194E+00	0.36077682E+00	2	1F 20	
25	0.0	0.0				2	1F 25	
27	0.0	0.0	0.0	0.0	0.0	2	1F 27	
32	0.0	0.0	0.0	0.0	0.0	2	1F 32	
37	0.0	0.0	0.0	0.0	0.0	2	1F 37	
42	0.0	0.0	0.0	0.0	0.0	2	1F 42	
47	0.84942352E+02	0.93436584E+02	0.18136209E+03	0.27778174E+03	0.37620117E+03	2	1F 47	
52	0.47062085E+03	0.56704053E+03	0.66346021E+03	0.75587988E+03	0.[illegible]E+03	2	1F 52	
57	0.95271924E+03	0.10250344E+04	0.0	0.0	0.0	2	1F 57	
62	0.0	0.0	0.0	0.0	0.0	2	1F 62	
67	0.[illegible]2735906E+12	0.51277732E+12	0.36115146E+12	0.27729461E+12	0.18786640E+12	2	1F 67	
72	0.13932023E+12	0.10241370E+12	0.70041666E+11	0.43722367E+11	0.23714607E+11	2	1F 72	
77	0.97271316E+10	0.41669233E+10	0.0	0.0	0.0	2	1F 77	
82	0.0	0.0	0.0	0.0	0.0	2	1F 82	
87	0.31341930E+12	0.30548774E+12	0.23996006E+12	0.20283825E+12	0.16653451E+12	2	1F 87	
92	0.13039396E+12	0.96576471E+11	0.66678419E+11	0.41754829E+11	0.22352634E+11	2	1F 92	
97	0.854377[illegible]E+10	0.35066459E+10	0.0	0.0	0.0	2	1F 97	
102	0.0	0.0	0.0	0.0	0.0	2	1F102	
107	0.0					2	1F107	

TT(1) = 77.700 TT(2) = 0.000

YC					
1	.68873970E+03	.68873970E+03	.72508177E+03	.80306578E+03	.88104979E+03
6	.99159024E+03	.10554339E+04	.36669424E+03	.30285054E+03	.15596803E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.
26	0.	0.	0.	0.	0.
31	0.	.57920000E+02	.28960000E+02	.28960000E+02	0.

TT(1) = 165.899 TT(2) = 0.000

YC					
1	.73412145E+03	.73412145E+03	.76842160E+03	.84202401E+03	.91562642E+03
6	.10199560E+04	.10665955E+04	.33247409E+03	.28583460E+03	.14720482E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.
26	0.	0.	0.	0.	0.
31	0.	.57920000E+02	.28960000E+02	.28960000E+02	0.

TT(1) = 254.098 TT(2) = 0.000

YC					
1	.77950319E+03	.77950319E+03	.81176143E+03	.88098223E+03	.95020304E+03
6	.10483219E+04	.10777571E+04	.29825395E+03	.26881866E+03	.13844161E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.
26	0.	0.	0.	0.	0.
31	0.	.57920000E+02	.28960000E+02	.28960000E+02	0.

TT(1) = 342.296 TT(2) = 0.000

YC					
1	.82488493E+03	.82488493E+03	.85510126E+03	.91994046E+03	.98477966E+03
6	.10766877E+04	.10889187E+04	.26403380E+03	.25180272E+03	.12967840E+03
11	.10100000E+00	.81000000E+05	.54000000E+05	.10500000E+08	.39000000E+07
16	.45000000E+05	.97000000E+05	.29331368E+00	.32415567E+00	0.
21	0.	.28960000E+02	0.	.28960000E+02	0.

ICS

1	.975312432E+04	.744948549E+07	.17823527E+08	.851032R0E+00	0.
6	.181113331E+05	.157A452HE+0H	.3R536310F+0H	.5A5R1833F+01	0.
11	.139088332E+05	.10R5420HE+0R	.291R66R9F+0H	.72403239F+01	0.
16	.100000000E+01	0.	0.	0.	0.
21	.231723794E+04	.19R37027F+07	.73992506F+07	.2A69H296E+02	0.
26	.671654UHE+04	.427449RHE+07	.10057644F+0H	.6A5R1090E+01	0.
31	.100000004+01	0.	0.	0.	0.
36	.722944005E+04	.589440H4E+07	.RR8R6R46F+07	.51057693E+01	0.
41	.R03R13402E+04	.48H3H591F+07	.6348A020F+07	.4R433336E+01	0.
46	.4HH6077IE+04	.3949J3HHE+07	.43139021F+07	.4276404AE+01	0.
51	.38H562626E+04	.311087J1E+07	.29820697F+07	.4347661JE+01	0.
56	.2868H502E+04	.17113671E+07	.1A90177RF+07	.4224107?E+01	0.
61	.120649867E+04	.41605944E+06	.71965327F+06	.5A5307?RE+01	0.
66	.4307A527E+02	.100000008+01	.14271795F+03	0.	.707247J5E+12
71	.3932327JE+12	.63U76527E+02	.95419766F+02	.1429?179?E+03	.23R3150?F+02
76	.707247J5E+12	.3932327?E+12	.3811931?F+02	.9641974AE+02	.13449921F+03
R1	0.	.51239634F+12	.303?R814F+12	.33?R0H35E+02	.337R2R06F+02
H6	.1266HU47E+03	0.	.3499027?F+12	.2211A191E+12	.312R09A3F+02
91	.62A3A990F+02	.123R7093E+03	0.	.29AR37?7E+12	.19201374F+12
96	.27943H05E+02	.9641974AE+02	.11H66173F+03	0.	.21533?65F+12
101	.14R5A038E+12	.2352514?F+02	.32254944F+02	.11?A42?0E+03	0.
106	.1327349?E+12	.10R56J46E+12	.22R89?55F+02	.A41A4822E+02	.10794?51E+03
111	0.	.11863667F+12	.9R7R3207F+11	.21A147?RF+02	.9A619766F+02
116	.1?2624?5E+03	0.	.93141594F+11	.?A411?96E+11	.197?42A8F+02
121	.9A619766E+02	.9A6197AAE+02	0.	.63?10?94E+11	.5552124?F+11
126	.17794H28E+02	.15HR33H4E+02	.HA5867?7F+02	0.	.3A6145?4F+11
131	.3477?5HRE+11	.1A619444E+11	.9A619766F+02	.7R6AH027F+02	0.
136	.2007?177E+11	.H272215?F+10	.13972949F+02	.723?4R24E+02	.705492R6E+02
141	0.	0.	.7116105RE+10	.12560110E+02	0.
146	.A45352?0E+02	0.	.41625517F+10	.3500A096E+10	0.
151	0.	.10000000F+01	0.	0.	0.
156	.10000006E+01	.30000000F+01	.20000000F+01	.30000000E+01	.20000000F+01
161	.30000000E+01	.50000000E+01	.40000000F+01	.30000000F+01	.40000000F+01
166	.40000000E+01	.50000000E+01	.40000000F+01	.50000000E+01	.50000000F+01
171	.50000000E+01	.70000000F+01	.60000000F+01	.60000000E+01	.70000000F+01
176	.60000000E+01	.80000000F+01	.70000000F+01	.80000000F+01	.80000000F+01
181	.80000000E+01	.10000000E+02	.90000000F+01	.80000000E+01	.90000000F+01
186	.90000000E+01	.10000000E+02	.90000000F+01	.10000000E+02	.10000000F+02
191	.11000000E+02	.12000000F+02	.11000000F+02	.11000000E+02	.12000000F+02
196	.11000000E+02	.12000000E+02	.12000000F+02	.13000000E+02	.12000000F+02
201	.13000000E+02	.13000000E+02	.14000000F+02	.13000000E+02	.14000000F+02
206	.14000000E+02	.15000000E+02	.3A6A9624F+03	.3A413446E+02	.56944990F+01
211	.33247409E+03	.30443912E+02	.5A944990F+01	.29R25305E+03	.3427437?F+02
216	.5A944990E+01	.396H4049E+03	.40526724F+02	.5A944990E+01	.2A4033A0F+03
221	.3210A867E+02	.56944990E+01	.2347A67AF+03	.29935315E+02	.56944990F+01
226	.396HA098E+03	.40526724E+02	.5A944990F+01	.217770A6E+03	.277657H3F+02
231	.5A944990E+01	.20075491E+03	.2559625?F+02	.5A944990F+01	.1R373R97F+03
236	.2362471HE+02	.56944990E+01	.16A72303F+03	.2125718AE+02	.56944990F+01
241	.1497?7U4E+03	.190R7654E+02	.5A944990F+01	.13A04513E+03	.17460505E+02
246	.5A944990E+01	0.	0.	0.	0.

CCULI

1	.780800006+04	.31156472E+03	.14706835E+03	.83000000E+02	.2738721?E+08
6	.47824000E+07	.27387211E+08	0.	.14706835E+03	.14706835F+03
11	.75214202E+03	.13452897F+03	.7R0H0000F+04	.5028?639E+03	.13734216F+03
16	.H1000000E+02	.2738?211E+08	.47824000F+07	.2738?211E+08	0.
21	-.13734210E+03	.13734216E+03	.44738454F+03	.1256?205E+03	0.
26	0.	0.	0.	0.	0.
31	0.	0.	0.	0.	0.
36	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
46	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.
56	0.	0.	0.	0.	0.
61	0.	0.	0.	0.	0.
66	0.	0.	0.	0.	0.
71	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
R1	0.	0.	0.	0.	0.
H6	.10000000E+01	0.	0.	0.	.10000000E+01
91	0.	.707247?5E+12	.51239634F+12	.3499027?E+12	0.
96	.13273492E+12	.9314159AE+11	.6701048AF+11	.3A414591E+11	.21533?65E+12
101	.82722152E+10	.41625917E+10	.30323273F+12	.3072R814E+12	.20073177E+11
106	.14R5603BE+12	.10R56J46E+12	.RA411996F+11	.55521247E+11	.2211A191E+12
111	.18615443E+11	.7116105HE+10	.35006096F+10	.10500000E+08	.3477058BE+11
116	.10100000E+00	.442703A0E-06	.02756203F+03	.66050000E+05	.39000000E+07
121	.11700000E+11	.77700000E+02	-.28323952F+11	.3115A472E+03	.12893622F+03
126	.29AR3707E+12	.19201374E+12	.7R0B0000E+04	.4A397240E+06	0.
131	.4A397240E+06	.A9832648E+08	.7077242?E+08	.10504022E+07	.10504022E+07
136	.21R7957UE+09	.5U2876?9E+03	0.	.11A43A47E+12	.70772622E+08
141	.78U8U00UE+04	.43328812E+06	.9R093505F+06	.43328812E+06	.9R7R3207E+11
146	.627895694E+08	.9U093UA5E+0A	.627895A9F+0H	.19A16203E+09	.83765424F+08
					.30000000E+01

CASE NO. 1 ***PLOTTER OPTIMIZATION DATA. (MOD. CAPE INACT DATA)*** ** PINTO **

0.10500[illegible]E+06	0.39[illegible]E+07	0.10[illegible]E+00	0.44[illegible]E-04	0.62[illegible]E+03		2	1	2 1
	0.66[illegible]E+05	0.12[illegible]E+02	0.11[illegible]E+11			2	1	4 2
0.77[illegible]E+07	-0.27[illegible]E+11					2	1	5 3
0.95[illegible]E+04	0.7[illegible]E+07	0.17[illegible]E+06	0.77[illegible]E+00	0.0		2	1	6 4
0.17[illegible]E+05	0.15[illegible]E+06	0.35[illegible]E+01	0.45[illegible]E+01	0.0		2	1	6 5
0.13[illegible]E+05	0.10[illegible]E+08	0.74[illegible]E+08	0.63[illegible]E+01	0.0		2	1	6 6
0.10[illegible]E+01	0.0	0.0	0.0	0.0		2	1	6 7
0.20[illegible]E+04	0.17[illegible]E+07	0.67[illegible]E+07	0.26[illegible]E+02	0.0		2	1	6 8
0.66[illegible]E+04	0.41[illegible]E+07	0.97[illegible]E+07	0.57[illegible]E+01	0.0		2	1	6 9
0.10[illegible]E+01	0.0	0.0	0.0	0.0		2	1	610
0.72[illegible]E+04	0.56[illegible]E+07	0.66[illegible]E+07	0.44[illegible]E+01	0.0		2	1	611
0.60[illegible]E+04	0.46[illegible]E+07	0.62[illegible]E+07	0.43[illegible]E+01	0.0		2	1	612
0.48[illegible]E+04	0.39[illegible]E+07	0.41[illegible]E+07	0.34[illegible]E+01	0.0		2	1	613
0.38[illegible]E+04	0.31[illegible]E+07	0.26[illegible]E+07	0.36[illegible]E+01	0.0		2	1	614
0.26[illegible]E+04	0.17[illegible]E+07	0.16[illegible]E+07	0.35[illegible]E+01	0.0		2	1	615
0.11[illegible]E+04	0.41[illegible]E+06	0.58[illegible]E+06	0.50[illegible]E+01	0.0		2	1	616
5	0.76[illegible]E+04	0.46[illegible]E+06	0.10[illegible]E+07	0.46[illegible]E+06	0.[illegible]E+02	2	1	717
	0.70[illegible]E+01	0.10[illegible]E+07	0.70[illegible]E+01	0.21[illegible]E+04		2	1	718
6	0.71[illegible]E+04	0.47[illegible]E+06	0.9E[illegible]E+00	0.42[illegible]E+06	0.E3[illegible]E+02	2	1	719
	0.62[illegible]E+04	0.98[illegible]E+06	0.62[illegible]E+06	0.19[illegible]E+04		2	1	720
43.08 1.00	142.72 0.0	0.32[illegible]E+12	0.31[illegible]E+12	0.0	0.0	2	1	821
43.08 95.42	142.72 [illegible]	0.42[illegible]E+12	0.31[illegible]E+12	0.0	0.0	2	1	822
38.12 96.42	134.70 0.0	0.38[illegible]E+12	0.23[illegible]E+12	0.0	0.0	2	1	823
33.05 33.79	126.64 0.0	0.27[illegible]E+12	0.20[illegible]E+12	0.0	0.0	2	1	824
31.28 62.64	124.87 0.0	0.24[illegible]E+12	0.19[illegible]E+12	0.0	0.0	2	1	825
27.94 96.42	118.66 0.0	0.18[illegible]E+12	0.16[illegible]E+12	0.0	0.0	2	1	826
25.52 32.26	110.04 0.0	0.13[illegible]E+12	0.13[illegible]E+12	0.0	0.0	2	1	827
22.59 64.16	107.96 0.0	0.12[illegible]E+12	0.11[illegible]E+12	0.0	0.0	2	1	828
21.61 96.42	102.62 0.0	0.10[illegible]E+12	0.96576471E+11	0.0	0.0	2	1	829
19.70 96.42	94.71 0.0	0.70[illegible]E+11	0.[illegible]E+11	0.0	0.0	2	1	830
17.79 96.42	86.54 0.0	0.43[illegible]E+11	0.41754829E+11	0.0	0.0	2	1	831
15.88 96.42	78.57 0.0	0.23[illegible]E+11	0.22352634E+11	0.0	0.0	2	1	832
13.97 72.32	70.55 0.0	0.97[illegible]E+10	0.[illegible]E+10	0.0	0.0	2	1	833
12.54 24.08	66.54 0.0	0.41[illegible]E+10	0.25[illegible]E+10	0.0	0.0	2	1	834
12.06 0.0	62.53 0.0	0.39585769E+10	0.33256133E+10	0.0	0.0	2	1	835
1	1	2	3			2	11136	
2	2	3	4			2	11137	
3	3	4	5			2	11138	
4	4	5	6			2	11139	
5	5	6	7			2	11140	
6	6	7	8			2	11141	

7	7	8	9	9	2	11142	
8	8	9	9	10	2	11143	
9	10	10	11	11	2	11144	
10	11	11	12	12	2	11145	
11	12	12	13	13	2	11146	
12	13	13	14	14	2	11147	
13	14	15		15	2	11148	
0.36[illegible]E+03	0.38[illegible]E+02	0.56945009E+01			2	11249	
0.33[illegible]E+03	0.3[illegible]E+02	0.56945009E+01			2	11250	
0.29825391E+03	0.34[illegible]E+02	0.56945009E+01			2	11251	
0.39[illegible]E+03	0.40[illegible]E+02	0.56945009E+01			2	11252	
0.26[illegible]E+03	0.32[illegible]E+02	0.56945009E+01			2	11253	
0.23478662E+03	0.29[illegible]E+02	0.56945009E+01			2	11254	
0.39[illegible]E+03	0.40[illegible]E+02	0.56945009E+01			2	11255	
0.21777075E+03	0.27[illegible]E+02	0.56945009E+01			2	11256	
0.20075464E+03	0.25[illegible]E+02	0.56945009E+01			2	11257	
0.18373877E+03	0.23[illegible]E+02	0.56945009E+01			2	11258	
0.16672290E+03	0.21[illegible]E+02	0.56945009E+01			2	11259	
0.14970703E+03	0.19[illegible]E+02	0.56945009E+01			2	11260	
0.13694462E+03	0.17[illegible]E+02	0.56945009E+01			2	11261	

OUTPUT TABLES AND CONTROLS

FUSELAGE STRUCTURAL WEIGHT ANALYSIS

IP	Overlay	Module	Subtoutine	Description
40	(0,0)	Executive	OLAY00	Title page for fuselage module
71	(11,0)	Fuselage	FUSLD	Fuselage loads data array
71	(11,0)	Fuselage	FUSLD	Inertia data array
71	(11,0)	Fuselage	FUSLD	Inertia data array and speed altitude profile data
74	(11,0)	Fuselage	DUMMY1	Input and corrected loads data
72	(11,0)	Fuselage	MATLP1	Cover material data
72	(11,0)	Fuselage	MATLP1	Longeron material data
72	(11,0)	Fuselage	MATLP1	Major frame material data
72	(11,0)	Fuselage	MATLP1	Minor frame material data
73	(11,0)	Fuselage	MFCNTL	TMS array - material properties for design conditions
74	(11,0)	Fuselage	FUSLD	Loads array for each of loading conditions
75	(11,0)	Fuselage	FRMND1	Major frame locations and shape
75	(11,0)	Fuselage	FFRME	Major frame external loading table all design condition

FUSELAGE STRUCTURAL WEIGHT ANALYSIS (CONT)

IP	Overlay	Module	Subroutine	Description
76	(11,0)	Fuselage	FRMLD	Major frame geometry and internal loads
76	(11,0)	Fuselage	SFOAWE	Major frame synthesis data
77	(11,0)	Fuselage	FFRME	Major frame detail weight summary
78	(12,0)	Fuselage	MINFR	T-array - minor frame data
79	(12,0)	Fuselage	FUSSHL	T-array - fuselage shell data
80	(12,0)	Fuselage	SPRINT	General construction indicators, flutter and pressure data
80	(12,0)	Fuselage	SPRINT	Basic vehicle data and coordinates for support points
80	(12,0)	Fuselage	SPRINT	Secondary structure indicators and geometric input data
80	(12,0)	Fuselage	SPRINT	Shell section input data
80	(12,0)	Fuselage	SPRINT	Shell criteria input data
80	(12,0)	Fuselage	SPRINT	Shell external geometry
80	(12,0)	Fuselage	SPRINT	Segment geometry and unit inertias

FUSELAGE STRUCTURAL WEIGHT ANALYSIS (CONCL)

IP	Overlay	Module	Subroutine	Description
80	(12,0)	Fuselage	SPRINT	Shell torsional geometry at cuts
80	(12,0)	Fuselage	SPRINT	Shell cutout data and bending stiffness
80	(12,0)	Fuselage	SPRINT	Shell cover synthesis data
80	(12,0)	Fuselage	SPRINT	Shell bending element synthesis data
80	(12,0)	Fuselage	SPRINT	Shell component weight table
80	(12,0)	Fuselage	SPRINT	Shell bending element weight table
-	(12,0)	Fuselage	SPRINT	Detail weight statement basic structure, alway printed
-	(12,0)	Fuselage	SPRINT	Detail weight statement secondary structure always printed
-	(12,0)	Fuselage	SPRINT	Detail weight statement doors, panels and misc, always printed
-	(12,0)	Fuselage	SPRINT	Body group detail balance, always printed

C 141 TEST CASE FOR NEW WING PROGRAM CHECKOUT AUGUST 1973
C 141 TEST CASE ---NO. 1 ---

**** FUSELAGE (OVERLAYS 11 AND 12) ****

WARNING FROM GEOMF1
SHAPE IS ROUNDED RECT. SECTION 4 CORRECTION IS 1.000

WARNING FROM GEOMF1
SHAPE IS ROUNDED RECT. SECTION 5 CORRECTION IS 1.000

WARNING FROM GEOMF1
SHAPE IS ROUNDED RECT. SECTION 6 CORRECTION IS 1.000

WARNING FROM GEOMF1
SHAPE IS ROUNDED RECT. SECTION 7 CORRECTION IS 1.000

WARNING FROM GEOMF1
SHAPE IS ROUNDED RECT. SECTION 8 CORRECTION IS 1.000

WARNING FROM GEOMF1
SHAPE IS ROUNDED RECT. SECTION 9 CORRECTION IS 1.000

WARNING FROM GEOMF1
SHAPE IS ROUNDED RECT. SECTION 10 CORRECTION IS 1.000

WARNING FROM GEOMF1
SHAPE IS ROUNDED RECT. SECTION 11 CORRECTION IS 1.000

WARNING FROM GEOMF1
SHAPE IS ROUNDED RECT. SECTION 12 CORRECTION IS 1.000

WARNING FROM GEOMF1
SHAPE IS ROUNDED RECT. SECTION 13 CORRECTION IS 1.000

** FUSLD - IP(71) *

*** DATA FROM LOADS PROGRAM TRANSFERRED TO FUSELAGE PROGRAM IN RECORD 33 ***

CONDITION	LOI	LOC	TEMP	FACI	FNZ	FNYO	JOOT	ROOT	SSPD	STRK	MACH	ALT	PZN	XCPN
1	2.	1.	95.3	1.50	2.50	0.00	0.000	0.000	0.00	0.00	.6000	0.	17623.	319.57
2	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
3	2.	1.	80.0	1.50	2.50	0.00	0.000	0.000	0.00	0.00	.8700	22500.	14611.	319.57
4	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
5	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
6	2.	1.	42.7	1.50	-1.00	0.00	0.000	0.000	0.00	0.00	.5740	0.	-7149.	319.57
7	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
8	2.	2.	80.0	1.50	2.00	0.00	0.000	0.000	0.00	0.00	.3334	0.	-2895.	319.57
9	2.	3.	80.0	1.50	1.00	0.00	0.000	0.000	10.00	28.00	.1469	0.	761.	319.57
10	2.	4.	42.7	1.50	2.47	0.00	-.880	0.000	0.00	0.00	.5740	0.	19151.	319.57
11	2.	4.	80.0	1.50	2.80	0.00	-1.215	0.000	0.00	0.00	.8140	20000.	17560.	319.57
12	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
13	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
14	2.	4.	42.7	1.50	-.47	0.00	.880	0.000	0.00	0.00	.5740	0.	-4852.	319.57
15	2.	4.	80.0	1.50	-.80	0.00	1.215	0.000	0.00	0.00	.8140	20000.	-5544.	319.57
16	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
17	0.	0.	0.0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00
18	2.	5.	42.7	1.50	1.00	.20	0.000	-.203	0.00	0.00	.5740	0.	7139.	319.57
19	2.	5.	80.0	1.50	1.00	.20	0.000	-.221	0.00	0.00	.8140	20000.	5998.	319.57
20	2.	6.	95.3	1.50	1.25	0.00	.500	0.000	0.00	0.00	.6000	0.	9573.	319.57
21	2.	6.	80.0	1.50	1.25	0.00	.500	0.000	0.00	0.00	.8700	22500.	7933.	319.57
22	2.	7.	95.3	1.50	1.00	.31	0.000	-.500	0.00	0.00	.6000	0.	7049.	319.57
23	2.	7.	80.0	1.50	1.00	.31	0.000	-.500	0.00	0.00	.8700	22500.	5844.	319.57
24	2.	8.	80.0	1.50	2.00	0.00	0.000	0.000	0.00	0.00	0.0000	0.	0.	0.00

CONDITION	PZMM	ACPM	YCPM	PZT	XCPM	YCPM	PTV	XCPV	ZCPV	WING APE
1	709772.	975.08	466.84	-10898.	1821.76	137.40	0.	1706.	0.00	648.7
2	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0
3	708848.	1003.61	456.00	-40803.	1827.44	135.48	0.	1712.	0.00	648.7
4	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0
5	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0
6	-243459.	974.29	467.13	3980.	1821.64	137.43	0.	1706.	0.00	648.7
7	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0
8	594305.	972.37	345.66	-19040.	1821.41	137.33	0.	1706.	0.00	648.7
9	234511.	975.50	466.69	-5846.	1821.66	137.19	0.	1706.	0.00	648.7
10	692521.	974.29	467.13	53076.	1821.64	137.43	0.	1706.	0.00	648.7
11	734195.	988.22	461.99	58479.	1824.06	136.69	0.	1707.	0.00	648.7
12	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0
13	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0
14	-75803.	974.29	467.13	-41036.	1821.64	137.43	0.	1706.	0.00	648.7
15	-153380.	988.22	461.99	-79007.	1824.06	136.69	0.	1707.	0.00	648.7
16	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0
17	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0
18	243459.	974.29	467.13	-3980.	1821.64	137.43	99963.	1706.	422.02	648.7
19	240392.	988.22	461.99	-10166.	1824.06	136.69	52875.	1707.	419.47	648.7
20	385548.	975.08	466.84	-40059.	1821.76	137.40	0.	1706.	0.00	648.7
21	402247.	1003.61	456.00	-56076.	1827.44	135.48	0.	1712.	0.00	648.7
22	243909.	975.08	466.84	-4359.	1821.76	137.40	99562.	1704.	421.89	648.7
23	248356.	1003.61	456.00	-16321.	1827.44	135.48	98521.	1712.	416.30	648.7
24	0.	0.00	0.00	0.	0.00	0.00	0.	0.	0.00	0.0

*** FUSELAGE INERTIA AND WEIGHT DISTRIBUTION DATA IN RECORD 34 ***

	DESIGN WEIGHT WING AFT CONDITIONS 1,2,3,4,6, 10,11,14,15, 18,19,20,21, 22 AND 23	DESIGN WEIGHT WING FWD CONDITIONS 5,7,12,13, 16 AND 17	MANEUVER WEIGHT CONDITION 8	LANDING WEIGHT CONDITION 9	TAXI WEIGHT CONDITION 24
DSW	316100.0	316100.0	318000.0	257500.0	318000.0
XCG	931.7	931.7	931.2	933.0	931.2
YCG	0.0	0.0	0.0	0.0	0.0
ZCG	250.0	250.0	250.2	242.3	250.2
IIXX	0.0	0.0	0.0	0.0	0.0
IIYY	23464771623.3	23464771623.3	23487278536.3	22571407792.5	23487278536.3
IIZZ	59402629113.1	59402629113.1	56052997966.4	48136154420.1	56052997966.4
WWI	188528.1	188528.1	190428.1	129928.1	190428.1
XWCG	921.1	921.1	920.5	919.1	920.5
YWCG	382.5	382.5	380.7	395.1	380.7
ZWCG	267.5	267.5	267.7	260.1	267.7
WIOX	0.0	0.0	0.0	0.0	0.0
WIOY	3492732035.7	3492732035.7	3510823363.7	2660217525.8	3510823363.7
WIOZ	40148532182.2	40148532182.2	40254102329.3	28882857406.7	40254102329.3
HWI	4546.3	4546.3	4546.3	4546.3	4546.3
XHCG	1847.4	1847.4	1847.4	1847.4	1847.4
YHCG	100.7	100.7	100.7	100.7	100.7
ZHCG	558.7	558.7	558.7	558.7	558.7
HIOX	0.0	0.0	0.0	0.0	0.0
HIOY	7134973.2	7134973.2	7134973.2	7134973.2	7134973.2
HIOZ	76278377.6	76278377.6	76278377.6	76278377.6	76278377.6
VWI	2567.5	2567.5	2567.5	2567.5	2567.5
XVCG	1751.0	1751.0	1751.0	1751.0	1751.0
YVCG	0.0	0.0	0.0	0.0	0.0
ZVCG	376.9	376.9	376.9	376.9	376.9
VIOX	0.0	0.0	0.0	0.0	0.0
VIOY	21242854.5	21242854.5	21242854.5	21242854.5	21242854.5
VIOZ	10639035.7	10639035.7	10639035.7	10639035.7	10639035.7
AIWI	0.0	0.0	0.0	0.0	0.0
XACG	0.0	0.0	0.0	0.0	0.0
YACG	0.0	0.0	0.0	0.0	0.0
ZACG	0.0	0.0	0.0	0.0	0.0
AIOX	0.0	0.0	0.0	0.0	0.0
AIOY	0.0	0.0	0.0	0.0	0.0
AIOZ	0.0	0.0	0.0	0.0	0.0
STWI	0.0	0.0	0.0	0.0	0.0
XST	0.0	0.0	0.0	0.0	0.0
YST	0.0	0.0	0.0	0.0	0.0
ZST	0.0	0.0	0.0	0.0	0.0
SIOX	0.0	0.0	0.0	0.0	0.0
SIOY	0.0	0.0	0.0	0.0	0.0
SIOZ	0.0	0.0	0.0	0.0	0.0

*** FUSELAGE INERTIA AND WEIGHT DISTRIBUTION DATA IN RECORD 34 ***

	DESIGN WEIGHT WING AFT CONDITIONS 1,2,3,4,6, 10,11,14,15, 18,19,20,21, 22 AND 23	DESIGN WEIGHT WING FWD CONDITIONS 5,7,12,13, 16 AND 17	MANEUVER WEIGHT CONDITION 8	LANDING WEIGHT CONDITION 9	TAXI WEIGHT CONDITION 24
WFC(1)	1805.2	1805.2	1805.2	1805.2	1805.2
WFC(2)	2071.9	2071.9	2071.9	2071.9	2071.9
WFC(3)	126.8	126.8	126.8	126.8	126.8
WFC(4)	8145.8	8145.8	8145.8	8145.8	8145.8
WFC(5)	9725.9	9725.9	9725.9	9725.9	9725.9
WFC(6)	9703.5	9703.5	9703.5	9703.5	9703.5
WFC(7)	309.3	309.3	309.3	309.3	309.3
WFC(8)	8958.2	8958.2	8958.2	8958.2	8958.2
WFC(9)	15450.1	15450.1	15450.1	15450.1	15450.1
WFC(10)	574.3	574.3	574.3	574.3	574.3
WFC(11)	5390.0	5390.0	5390.0	5390.0	5390.0
WFC(12)	366.2	366.2	366.2	366.2	366.2
WFC(13)	13574.5	13574.5	13574.5	13574.5	13574.5
WFC(14)	15640.2	15640.2	15640.2	15640.2	15640.2
WFC(15)	232.3	232.3	232.3	232.3	232.3
WFC(16)	334.5	334.5	334.5	334.5	334.5
WFC(17)	3.5	3.5	3.5	3.5	3.5
WFC(18)	267.8	267.8	267.8	267.8	267.8
WFC(19)	10.9	10.9	10.9	10.9	10.9
WFC(20)	201.9	201.9	201.9	201.9	201.9
WFUS(1)	170.2	170.2	170.2	170.2	170.2
WFUS(2)	686.0	686.0	686.0	686.0	686.0
WFUS(3)	44.2	44.2	44.2	44.2	44.2
WFUS(4)	1224.9	1224.9	1224.9	1224.9	1224.9
WFUS(5)	2188.8	2188.8	2188.8	2188.8	2188.8
WFUS(6)	2234.2	2234.2	2234.2	2234.2	2234.2
WFUS(7)	71.9	71.9	71.9	71.9	71.9
WFUS(8)	2071.6	2071.6	2071.6	071.6	2071.6
WFUS(9)	2256.3	2256.3	2256.3	2256.3	2256.3
WFUS(10)	85.5	85.5	85.5	85.5	85.5
WFUS(11)	780.7	780.7	780.7	780.7	780.7
WFUS(12)	88.0	88.0	88.0	88.0	88.0
WFUS(13)	3281.0	3281.0	3281.0	3281.0	3281.0
WFUS(14)	3792.2	3792.2	3792.2	3792.2	3792.2
WFUS(15)	2187.0	2187.0	2187.0	2187.0	2187.0
WFUS(16)	4243.1	4243.1	4243.1	4243.1	4243.1
WFUS(17)	60.0	60.0	60.0	60.0	60.0
WFUS(18)	1130.2	1130.2	1130.2	1130.2	1130.2
WFUS(19)	48.8	48.8	48.8	48.8	48.8
WFUS(20)	920.8	920.8	920.8	920.8	920.8

ALTITUDE	MACH NO.	Q
0.0	.6000	533.3
5000.0	.6494	520.5
10000.0	.7060	507.8
15000.0	.7688	494.1
20000.0	.8400	480.3
21250.0	.8548	471.9
22500.0	.8700	463.5
36250.0	.8700	248.5
50000.0	.8700	128.3
0.0	0.0000	64.4

LOAD CONDITION NO. 1 ** DUMMY1 - IP(74) *

		INPUT	CORRECTED
WGW=	POUNDS	314100.00	314100.00
XCG=	INCHES	931.65	931.65
ZCG=	INCHES	250.01	250.01
TIYY=	LB-IN**2	2346677162[illegible]1.29	2346677162[illegible]3.29
QDOT=	RAD/SEC SQ	0.00	0.00
PZWB=	POUNDS	709771.53	709771.53
XCPW=	INCHES	975.08	975.08

*** MATL TEMPERATURE ERROR ***

MATL NO. 4.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 95.3 ASSUMED TEMP. = 80.0

CASE 1 -***-COVER MATERIAL DATA. MATL NO. 4-***- ** MATLP1 - IP(72) *

7075-T6 AL CLAD SHEET 0.040 TO 0.062 IN. MIL-HDBK-5 B DATA EST.
REF. TABLE 3.2.7.0(C) PAGE 33A 8-00-72

TEMP.= 80.00 DENSITY= .1010 MU= .3305

	A	B	E	E(RT)	G(RT)
COMPRESSION	.21026210E-10	.28262543E-03	10400010.5	10700000.0	4022560.0
TENSION	.21026210E-10	.28262543E-03	10400010.5		

	EPS(P)	EPS(Y)	F(P)	F(2)	F(3)	F(4)	F(Y)
COMPRESSION	.003810	.008190	40000.0	51200.0	59000.0	62900.0	65000.0
TENSION	.003810	.008190	40000.0	51200.0	59000.0	62900.0	65000.0

FTU= 73000.0 FSU= 44000.0 FBRU= 139000.0

TM					
1	.80000000E+02	.33050000E+00	.21026210E-10	.28262543E-03	.10500011E+08
6	.85000000E+05	.21026210E-10	.28262543E-03	.10500011E+08	.65000000E+05
11	.10100000E+00	.73000000E+05	.40000000E+05	.10700000E+08	.40225600E+07
16	.44000000E+05	.13900000E+06	.19075882E+00	.74000000E+00	.22278465E+00
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.

TMD										
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

*** MATL TEMPERATURE ERROR ***

MATL NO. 5.0 THERE IS ONE TEMPERATURE ON FILE
REQD. TEMP. = 95.3 ASSUMED TEMP. = 80.0

CASE 1 -***- LONGERON MATERIAL DATA. MATL NO. 5-***- ** MATLP1 - IP(72) *

7075-T6 AL BARE PLATE 0.25 TO 0.50 IN. MIL-HDBK-5 B DATA EST.
REF. TABLE 3.2.7.0(B) PAGE 33A 4-00-72

TEMP.= 80.00 DENSITY= .1010 MU= .3300

	A	B	E	E(RT)	G(RT)
COMPRESSION	.13136662E-08	.20050470E-03	10500000.0	10900000.0	3900000.0
TENSION	.13136662E-08	.20050470E-03	10400000.0		

	EPS(P)	EPS(Y)	F(P)	F(2)	F(3)	F(4)	F(Y)
COMPRESSION	.005000	.008762	52510.0	59700.0	65000.0	68750.0	71000.0
TENSION	.005000	.008762	52500.0	59700.0	65000.0	68750.0	71000.0

FTU= 79000.0 FSU= 47000.0 FBRU= 142000.0

TM					
1	.80000000E+02	.33000000E+00	.13136662E-08	.20050470E-03	.10500000E+08
6	.71000000E+05	.13136662E-08	.20050470E-03	.10500000E+08	.71000000E+05
11	.10100000E+00	.79000000E+05	.52500000E+05	.10500000E+08	.39000000E+07
16	.47000000E+05	.14200000E+06	.22900000E+00	.76000000E+00	.50000000E+00
21	0.	0.	0.	0.	0.
26	0.	0.	0.	0.	0.

TMD										
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

```
   CASE    1                    ***-MAJOR FRAME MATERIAL DATA,  MATL NO.  5-***        ** MATLP1 = IP(72) *

              7075-T6 AL SHEET PLATE 0.25 TO 0.50 IN. MIL-HDBK-5 B DATA EST.
                        REF. TABLE 3.2.7.0(B) PAGE 334  8-A8-72

   TEMP.=   A8.00    DENSITY= .1010   MU=  .3300

                          A                 N              E          E(RT)         G(RT)
COMPRESSION          .13136644E-08     .2005047AE-03   10500000.0   10500000.0    3900000.0
TENSION              .13136642E-08     .2005047AE-03   10500000.0

                       EPS(P)          EPS(Y)          F(P)          F(2)          F(3)          F(4)          F(Y)
COMPRESSION          .005000         .00A7A2       52500.0       50700.0       64800.0       6A750.0       71000.0
TENSION              .005000         .00A7A2       52500.0       50700.0       64800.0       6A750.0       71000.0

                    FTU=  70000.0  FSU=  47000.0  FBRU= 142000.0

 TM
  1     .A0000000E+02     .33000000E+00     .13136642E-08     .2005047AE-03     .10500000E+08
  6     .71000000E+05     .13136642E-08     .2005A47AE-03     .10500000E+08     .71000000E+05
 11     .10100000E+00     .79000000E+05     .52500000E+05     .10500000E+08     .39000000E+07
 16     .67000000E+05     .14200000E+06     .22500000E+00     .76000000E+00     .50000000E+00
 21     0.                0.                0.                0.                0.
 26     0.                0.                0.                0.                0.

 TMD
 10  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000
 20  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000



          *** MATL TEMPERATURE ERROR ***

  MATL NO.  4.0  THERE IS ONE TEMPERATURE ON FILE
       REQD. TEMP. =   99.3   ASSUMED TEMP. =   A8.0



   CASE    1                    ***-MINOR FRAME MATERIAL DATA,  MATL NO.  4-***        ** MATLP1 = IP(72) *

              7075-T6 AL CLAD SHEET 0.040 TO 0.062 IN. MIL-HDBK-5 B DATA EST.
                        REF. TABLE 3.2.7.0(C) PAGE 33A  8-A9-72

   TEMP.=   A8.00    DENSITY= .1010   MU=  .3305

                          A                 N              E          E(RT)         G(RT)
COMPRESSION          .21026210E-10     .28262543E-03   10500010.5   10700000.0    4022500.0
TENSION              .21026210E-10     .28262543E-03   10500010.5

                       EPS(P)          EPS(Y)          F(P)          F(2)          F(3)          F(4)          F(Y)
COMPRESSION          .003810         .000100       46000.0       51200.0       50000.0       62900.0       65000.0
TENSION              .003810         .000100       40000.0       51200.0       50000.0       62900.0       65000.0

                    FTU=  73000.0  FSU=  44000.0  FBRU= 130000.0

 TM
  1     .80000000E+02     .33050000E.00     .21026210E-10     .28262543E-03     .10500011E.08
  6     .A5000000E+05     .21026210E-10     .28262543E-03     .10500011E+08     .65000000E+05
 11     .10100000E+00     .73000000E.05     .40000000E+05     .10700000E.08     .40225000E.07
 16     .44000000E+05     .13900000E+06     .19075002E+00     .74000000E+00     .22270405E+00
 21     0.                0.                0.                0.                0.
 26     0.                0.                0.                0.                0.

 TMD
 10  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000
 20  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000



 TMS REGION  LEN = 1                                                          ** NFCNTL = IP(73) *
   1     .80000000E+02     .33050000E+00     .21026210E-10     .28262543E-03     .10500011E+08
   6     .65000000E+05     .21026210E-10     .28262543E-03     .10500011E+08     .65000000E+05
  11     .10100000E+00     .73000000E+05     .40000000E+05     .10700000E+08     .40225000E+07
  16     .44000000E+05     .13900000E+06     .19075002E+00     .74000000E+00     .22270405E+00
  21     0.                0.                0.                0.                0.
  26     0.                0.                0.                0.                0.
  31     .80000000E+02     .33000000E+00     .13136642E-08     .2005047AE-03     .10500000E+08
  36     .71000000E+05     .13136642E-08     .2005047AE-03     .10500000E+08     .71000000E+05
  41     .10100000E+00     .79000000E+05     .52500000E+05     .10500000E+08     .39000000E+07
  46     .67000000E+05     .14200000E+06     .22500000E+00     .76000000E+00     .50000000E+00
  51     0.                0.                0.                0.                0.
  56     0.                0.                0.                0.                0.
  61     .80000000E+02     .33000000E+00     .13136642E-08     .2005047AE-03     .10500000E+08
  66     .71000000E+05     .13136642E-08     .2005047AE-03     .10500000E+08     .71000000E+05
  71     .10100000E+00     .79000000E+05     .52500000E+05     .10500000E+08     .39000000E+07
  76     .67000000E+05     .14200000E+06     .22500000E+00     .76000000E+00     .50000000E+00
  81     0.                0.                0.                0.                0.
  86     0.                0.                0.                0.                0.
  91     .80000000E+02     .33050000E+00     .21026210E-10     .28262543E-03     .10500011E+08
  96     .65000000E+05     .21026210E-10     .28262543E-03     .10500011E+08     .65000000E+05
 101     .10100000E+00     .73000000E+05     .40000000E+05     .10700000E+08     .40225000E+07
 106     .44000000E+05     .13900000E+06     .19075002E+00     .74000000E+00     .22270405E+00
 111     0.                0.                0.                0.                0.
 116     0.                0.                0.                0.                0.
```

*** LOADS ARRAY ***

** FUSLD - IP(74) *

CASE NO 1 LOAD TYPE 1 DATA TYPE 2

OGW = 310100.0 C.G. = 931.7 NZ = 2.5 QDOT = 0.000 MN = .60 ALT. = 0.0 TEMP = 95.3

STATION	SEGMENT	THETA	VZ-RH	VZ-LH	VY-RH	VY-LH	MX-RH	MX-LH	MY-COUPLE
351.0	3.0	2.761	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
998.0	12.0	2.279	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1058.0	13.0	2.279	0.0	0.0	0.0	0.0	0.0	0.0	0.0
734.0	7.0	.746	-98734.3	-98734.3	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
958.0	10.0	.746	277572.8	277572.8	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1041.0	17.0	.701	21782.7	21782.7	0.0	0.0	0.0	0.0	0.0
1728.0	19.0	.810	-43294.5	-43294.5	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CUT/SEG	STATION	INCR FUS	WT CONT.	VZ-CONT.	AIRLOAD	SHEAR-VZ	MOMENT-MY
1	272.0	170.2	1805.2	-6769.6	2714.8	-3332.6	-46211.7
2	349.0	686.0	2071.9	-7769.5	11429.3	3469.2	-40969.6
3	353.0	44.2	126.8	-475.4	346.6	3348.0	-27315.1
4	452.0	1224.9	8145.8	-30546.9	3130.3	-27096.7	-1202876.7
5	600.0	2188.8	9725.9	-36472.0	0.0	-71776.7	-8519505.6
6	732.0	2234.2	9703.5	-36388.2	14607.2	-94632.2	-19502489.8
7	736.0	71.9	409.3	-1150.7	1006.3	-242020.6	-20275795.3
8	846.0	2071.6	8958.2	-33593.1	40667.6	-2[illegible]281.0	-5131787.5
9	956.0	2256.3	15450.1	-57938.0	17472.3	-312571.6	-83490267.7
10	960.0	85.5	574.3	-2153.6	0.0	240099.6	-83635211.7
11	996.0	780.7	5390.0	-20212.5	0.0	216959.4	-75408150.4
12	1000.0	88.0	366.2	-1373.2	0.0	215256.3	-74543719.2
13	1142.0	3281.0	13574.5	-50904.3	0.0	152048.0	-48665113.1
14	1292.0	3792.2	15640.2	-58650.8	0.0	79176.7	-31123257.7
15	1398.0	2187.0	232.3	-871.1	0.0	70104.5	-23211355.8
16	1639.0	6243.1	334.5	-1254.4	0.0	52938.3	-8384702.4
17	1643.0	60.0	3.5	-13.1	0.0	96265.7	-[illegible]224.5
18	1726.0	1130.2	267.8	-1004.4	0.0	91022.9	-[illegible]4.9
19	1730.0	48.8	10.9	-40.9	0.0	4210.0	-[illegible]3.1
20	1817.9	920.8	201.9	0.0	0.0	0.0	0.0

FUSELAGE STATION = 351.00

** FWMNDI - IP(75) *

GEOMETRY TYPE IS ROUNDED RECTANGLE

HORIZ FLAT = .08 RADIUS = 75.01 VERT FLAT = .08

LOAD SETS = 16 LOAD PNTS = 2

LOAD SET 1 TEMERATURE = 95.3

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 2 TEMERATURE = 80.0

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 3 TEMERATURE = 92.7

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 4 TEMERATURE = 80.0

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 5 TEMERATURE = 80.0

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 6 TEMERATURE = 92.7

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 7 TEMERATURE = 80.0

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	0.	0.	0.
2	201.80	0.	0.	0.

LOAD SET 16 TEMERATURE = 80.0

LOAD PT.	THETA	VERTICAL FORCE	HORIZ. FORCE	MOMENT
1	158.20	.45347311E+05	0.	0.
2	201.80	.45347311E+05	0.	0.

LOAD SET = 16 ** FRML() = IP(78) *

CUT	YMAX	ZMAX	DELS	MOMENT	AXIAL	SHEAR
1	11.607	73.261	22.583	.6ARA138E+06	.1949246E+05	-.317770RE+04
2	33.6R4	66.102	22.580	.2R14523E+06	.1583488E+05	-.8R22663E+04
3	52.464	52.464	22.580	.5R675R9E+05	.1232R02E+05	-.1232R02E+05
4	66.102	33.6R4	22.580	-.2R16R06E+06	.1318479E+05	-.1263942E+05
5	73.261	11.607	22.583	-.4229006E+06	.1903649E+05	-.9210216E+04
6	73.261	-11.607	22.583	-.5245474E+06	.2576419E+05	-.2192140E+04
7	66.102	-33.6R4	22.580	-.4361209E+06	.2722RA1E+05	.7931646E+04
8	52.464	-52.464	22.580	-.1005458E+06	.1973738E+05	.1973737E+05
9	33.6R4	-66.102	22.580	.3AAR625E+06	-.4549351E+04	.1134R3RE+05
10	11.607	-73.261	22.583	.5AR3930E+06	-.1949246E+05	-.317770RE+04
11	-11.607	-73.261	22.583	.5AR3478E+06	-.1949246E+05	.3177708E+04
12	-33.6R4	-66.102	22.580	.3AAR625E+06	-.4549351E+04	-.1134R3RE+05
13	-52.464	-52.464	22.580	-.1005458E+06	.1973738E+05	-.1973737E+05
14	-66.102	-33.6R4	22.580	-.4361209E+06	.2722RA1E+05	-.7931646E+04
15	-73.261	-11.607	22.583	-.5245474E+06	.2576419E+05	.2192140E+04
16	-73.261	11.607	22.583	-.4229006E+06	.1903649E+05	.9210216E+04
17	-66.102	33.6R4	22.580	-.2R16R06E+06	.1318479E+05	.1263942E+05
18	-52.464	52.464	22.580	.5R675R9E+05	.1232R02E+05	.1232R02E+05
19	-33.6R4	66.102	22.580	.2R14523E+06	.1583488E+05	.8R22663E+04
20	-11.607	73.261	22.583	.6AR6138E+06	.1949246E+05	.3177708E+04

CUT	T-WEB	T-CAP	R-CAP
1	.13R	.275	4.42A
2	.11A	.231	3.714
3	.101	.124	2.001
4	.101	.19R	3.180
5	.140	.279	4.48A
6	.15A	.312	5.027
7	.145	.2R9	4.651
R	.11R	.1A1	2.58R
9	.125	.249	4.010
10	.159	.319	5.127
11	.159	.319	5.127
12	.125	.249	4.010
13	.11R	.1A1	2.5RR
14	.145	.2R9	4.651
15	.15A	.312	5.027
16	.140	.279	4.48A
17	.101	.19R	3.180
1R	.101	.124	2.001
19	.11A	.231	3.714
20	.13R	.275	4.42A

** SEQAWR = IP(78) *

*** MAJOR FRAMES ***

** FFRMF = IP(77) *

SEGMENT	STATION	WT CAP	WT WEB	WT STIFF	FRAME WT
3.0	351.0	102.0	39.0	27.4	168.4
12.0	99R.0	1014.4	256.3	258.0	1530.9
13.0	1054.0	53.5	31.3	15.A	100.4
7.0	734.0	258.5	71.1	A7.1	396.R
10.0	954.0	543.6	149.A	147.0	860.1
17.0	1041.0	97.1	34.4	29.0	160.6
19.0	1178.0	65.1	2R.5	24.2	119.R

*** BREAKPOINT OUTPUT - SUBROUTINE OTHER ***

SECTION 1

T-REGION					
1	0.0000	7.0000	30.6867	.1650	[illegible]
6	2.5882	.0500	.0500	898.4088	776.[illegible]
11	8.6000	8.6000	1.0000	.0225	.0225
16	0.0000	0.0000	0.0000	0.0000	.0000
21	0.0000	0.0000	0.0000	2430.3333	133.[illegible]
26	0.0000	0.0000	0.0000	0.0000	.0000
31	0.0000	0.0000	0.0000	0.0000	.0000
36	0.0000	0.0000	0.0000	0.0000	.0000
41	.0500	86.4776	42.6387	0.0000	.0000
46	0.0000	0.0000	1.0000	0.0000	.0000
51	0.0000	0.0000	0.0000	0.0000	.0000
56	0.0000	0.0000	0.0000	0.0000	.0000
61	0.0000	0.0000	1.0000	0.0000	.0000
66	0.0000	0.0000	1.0000	0.0000	.0000
71	0.0000	0.0000	0.0000	0.0000	.0000
76	0.0000	0.0000	0.0000	0.0000	.0000
81	0.0000	0.0000	1.0000	0.0000	.0000
86	0.0000	0.0000	0.0000	0.0000	.0000
91	0.0000	0.0000	0.0000	0.0000	.0000
96	0.0000	0.0000	0.0000	0.0000	.0000
101	0.0000	44.4516	0.0000	86.8776	998[illegible].6757
106	9830[illegible].6757	21433.7740	21433.7740	4367.5519	1[illegible].3516
111	17155.2667	17155.2667	4667.2502	4667.2502	5734.[illegible]
116	37538.8264	0.0000	1.0000	303.2786	134.[illegible]
121	-48333.7268	50423.4126	-8595.8541	-8787.8250	2707.[illegible]
126	1.0000	931.8500	1.5000	2.5000	.0000
131	3.0000	931.8500	1.5000	-1.0000	.0000
136	5712[illegible].3946	0.0000	1.1213302.0000	0.0000	.0000
141	99.9656	.4908	.9698	3047.1132.8045	997.[illegible]
146	7762.5823	11.5002	0.0000	0.0000	.0000
151	0.0000	.0225	.0225	0.0000	.0225
156	.0225	0.0000	1.0000	0.0000	.0000
161	0.0000	.1352	.0225	0.5000	.0000
166	0.0000	0.0000	0.0000	0.0000	.0000
171	0.0000	0.0000	0.0000	0.0000	.0000
176	0.0000	0.0000	0.0000	0.0000	.0000
181	0.0000	0.0000	0.0000	0.0000	.0000
186	0.0000	0.0000	1.0000	0.0000	.0000
191	0.0000	0.0000	1.0000	0.0000	.0000
196	0.0000	0.0000	0.0000	0.0000	.0000

*** BREAKPOINT OUTPUT - SUBROUTINE FUSSML ***

SECTION 1

T-REGION					
1	2.5000	341.6871	3.5000	3.2154	.1250
6	.1125	.1131	.1116	1307.2471	-.5000
11	-1.0000	-.5000	.5000	-.2500	.5000
16	.2419	-.4500	.2262	.0181	.1158
21	.2991	3.2154	11.1139	22.2258	1.7748
26	4915.4338	0.0000	5443.1208	0.0000	1748.2479
31	17.2000	0.0000	0.0000	0.0000	.1250
36	2.1500	42.4347	1.0000	17.2000	.0314
41	.5421	86.8776	.0000	0.0000	537.6181
46	.0632	0.0000	1.0000	0.0000	.5000
51	.0797	.0402	.0252	.0402	1.0000
56	0.0000	.0018	0.0000	0.0000	1.0000
61	0.0000	0.0000	0.0000	50.0000	1.0000
66	0.0000	0.0000	0.0000	0.0000	.0000
71	0.0000	0.0000	0.0000	0.0000	1.0000
76	0.0000	0.0000	0.0000	0.0000	.0000
81	0.0000	0.0000	0.0000	0.0000	1.0000
86	0.0000	0.0000	0.0000	0.0000	.0000
91	0.0000	0.0000	0.0000	0.0000	.0000
96	0.0000	0.0000	0.0000	0.0000	.0000
101	0.0000	44.4516	0.0000	86.8776	998[illegible].6757
106	9830[illegible].6757	21433.7740	21433.7740	4367.5519	1[illegible].3516
111	17155.2667	17155.2667	4667.2502	4667.2502	5734.[illegible]
116	37538.8264	0.0000	1.0000	303.2786	134.[illegible]
121	-48333.7268	50423.4126	-8595.8541	-8787.8250	2707.[illegible]
126	1.0000	931.8500	1.5000	2.5000	.0000
131	3.0000	931.8500	1.5000	-1.0000	.0000
136	5712[illegible].3946	0.0000	1.1213302.0000	0.0000	.0000
141	99.9656	.4908	.9698	3047.1132.8045	997.[illegible]
146	7762.5823	11.5002	0.0000	0.0000	.0000
151	0.0000	.0225	.0225	0.0000	.0225
156	.0225	0.0000	1.0000	0.0000	.0000
161	0.0000	.1352	.0225	0.5000	.0000
166	0.0000	.1650	0.0000	0.5000	.0000
171	0.0000	0.0000	1.0000	0.0000	.0000
176	0.0000	0.0000	0.0000	0.0000	.0000
181	42.4387	86.4776	8.6100	0.0000	.0000
186	16263.4795	8500.0000	1.5000	2833.3333	.1116
191	.1116	0.0000	0.0000	0.0000	.0000
196	0.0000	0.0000	0.0000	0.0000	.0000

*** GENERAL CONSTRUCTION INDICATORS *** ** SPRINT - IP(80) *

VEHICLE TYPE	91.0
NUMBER OF CUTS	19.0
SHAPE CODE	1.0
CONSTRUCTION TYPE	2.0
COVER DESIGN INDICATOR	0.0
COVER MATERIAL NUMBER	4.0
LONGERON MATERIAL NUMBER	5.0
MAJOR FRAME MATERIAL NUMBER	5.0
MINOR FRAME MATERIAL NUMBER	4.0
PRINT CODE	10.0
NUMBER OF PRIMARY LONGERONS	0.0
NUMBER OF SECONDARY LONGERONS	4.0
GENERAL DEPTH RATIO = LONGS	0.0
NUMBER OF SHROUD RADII	0.0
STRINGER SPACING	4.0
GENERAL FRAME DEPTH	4.0
GENERAL FRAME SPACING	1020.0
COVER INDEX FACTOR	1.2200
LONGERON INDEX FACTOR	1.1880
JSP INDEX FACTOR	1.0000
MINOR FRAME INDEX FACTOR	1.2580
MAJOR FRAME INDEX FACTOR	1.1000
BULKHEAD INDEX FACTOR	1.1000

LOCAL PANEL FLUTTER DATA

MACH NUMBER	0.00
ALTITUDE	0.0
DYNAMIC PRESSURE	0.0
COVER MODULUS OF ELASTICITY	0.
FUNCTION OF MACH NUMBER	0.0000

ADDITIONAL DESIGN DATA

MAXIMUM SEA LEVEL SPEED	.60
MAXIMUM DYNAMIC PRESSURE	533.3
LIMIT CABIN PRESSURE	8.00

*** BASIC VEHICLE DATA *** ** SPRINT - IP(80) *

NUMBER OF CREW MEMBERS	4.0
NUMBER OF ENGINES	0.0
WING CHORD = SIDE OF FUSELAGE	302.9
WING APEX	648.8

	INDICATOR	X-COORDINATE	Y-SIDE FUS	Z-SIDE FUS
WING DATA	0.0		77.7	284.0
FRONT SPAR		736.0		
REAR SPAR		958.0		
INT. SPAR		0.0		
HORIZONTAL TAIL DATA	0.0		0.0	0.0
FRONT SPAR		0.0		
REAR SPAR		0.0		
VERTICAL TAIL DATA	1.0		0.0	286.0
FRONT SPAR		1041.0		
REAR SPAR		1228.0		
NACELLE DATA			0.0	0.0
FORWARD SUPPORT		0.0		
AFT SUPPORT		0.0		
STORES AND OTHERS			0.0	0.0
FORWARD SUPPORT		0.0		
AFT SUPPORT		0.0		
NOSE GEAR DATA			28.0	130.0
GROUND LOCATION		356.7	28.0	96.0
TRUNNION		351.0		
DRAG STRUT		0.0		
MAIN GEAR DATA			64.5	144.7
GROUND LOCATION		991.8	105.0	96.0
TRUNNION		998.0		
DRAG STRUT		1058.0		

*** SECONDARY STRUCTURE - INPUT DATA SET *** ** SPRINT - IP(80) *

INDICATORS AND C.G. DATA, SECT REGION

1	0.0000	0.0000	1.0000	1.0000	1.0000
6	1.0000	1.0000	1.0000	0.0000	0.0000
11	0.0000	0.0000	1.0000	1.0000	1.0000
16	0.0000	0.0000	0.0000	1.0000	0.0000
21	1.0000	0.0000	0.0000	0.0000	1.0000
26	1.0000	1.0000	1.0000	1.0000	1.0000
31	0.0000	0.0000	0.0000	0.0000	0.0000
36	1.0000	0.0000	0.0000	1.0000	1.0000
41	0.0000	1.0000	1.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	389.4000	389.4000	1020.0000
56	389.4000	442.4000	319.8000	0.0000	0.0000
61	0.0000	0.0000	944.6000	953.8000	1568.0000
66	0.0000	0.0000	0.0000	1996.4000	0.0000
71	1411.0000	0.0000	0.0000	0.0000	810.0000
76	942.5000	1218.0000	1208.0000	448.0000	850.0000
81	0.0000	0.0000	0.0000	0.0000	0.0000
86	971.8000	0.0000	0.0000	872.0000	872.0000
91	0.0000	882.4000	872.0000	0.0000	0.0000
96	0.0000	0.0000	0.0000	0.0000	0.0000

GEOMETRIC DEFINITIONS, SECT REGION

1	0.0000	0.0000	29.0000	30.0000	3.0000
6	51.0000	29.0000	49.0000	2.0000	0.0000
11	6.0000	6.0000	6.0000	0.0000	183.0000
16	0.0000	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	163.0000	32.0000	385.3000
26	0.0000	0.0000	0.0000	0.0000	148.5000
31	127.0000	0.0000	65.7000	77.5000	122.0000
36	0.0000	0.0000	0.0000	0.0000	6.0500
41	0.0000	6.1470	3.0000	21.2000	2.0000
46	12.2000	1.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	700.0000	0.0000	0.0000
56	661.0000	2.0000	712.5000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000	0.0000

*** SHELL GEOMETRY - INPUT DATA SET *** ** SPRINT - IP(80) *

CUT	STATION	FRAME SPACING	FRAME DEPTH	LONGERON DEPTH RATIO	DECK DEPTH	CUTOUT UPPER	CUTOUT LOWER	CUTOUT SIDE	SHROUD RADIUS
1	272.0	0.0	0.0	0.0000	.4000	0.0	-56.0	0.0	0.0
2	349.0	0.0	0.0	0.0000	.4000	0.0	56.0	0.0	0.0
3	353.0	0.0	0.0	0.0000	.4000	0.0	0.0	0.0	0.0
4	482.0	0.0	0.0	0.0000	.5000	0.0	0.0	0.0	0.0
5	600.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
6	732.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
7	736.0	0.0	0.0	0.0000	.8235	-1.0	0.0	0.0	0.0
8	840.0	0.0	0.0	0.0000	.8235	1.0	0.0	0.0	0.0
9	956.0	0.0	0.0	0.0000	.8235	1.0	0.0	0.0	0.0
10	960.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
11	996.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
12	1000.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
13	1142.0	0.0	0.0	0.0000	0.0000	0.0	0.0	0.0	0.0
14	1292.0	0.0	0.0	0.0000	.6848	0.0	-1.0	0.0	0.0
15	1396.0	0.0	0.0	0.0000	.4958	0.0	1.0	0.0	0.0
16	1639.0	0.0	0.0	0.0000	.4468	0.0	1.0	0.0	0.0
17	1643.0	0.0	0.0	0.0000	.4468	0.0	1.0	0.0	0.0
18	1726.0	0.0	0.0	0.0000	.3468	0.0	1.0	0.0	0.0
19	1730.0	0.0	0.0	0.0000	.3468	0.0	1.0	0.0	0.0

NOTES:
FRAME SPACING = 1000 INDICATES FIXED FRAME SPACING.
NEGATIVE VALUE FOR LONGERON DEPTH INDICATES ANGULAR
LOCATION OF LONGERONS IN RADIANS.
VALUE OF 1 DESIGNATES THE REMOVAL OF SECTOR.
NEGATIVE VALUE FOR CUTOUTS AND SHROUD RADIUS DESIGNATES FORWARD EDGE.

*** SHELL CRITERIA AND INDICATORS - INPUT DATA SET *** ** SPRINT - IP(80) *

CUT	STATION	NUMBER BEAMS	INDICATOR BULKHEAD	PRESSURE	DENSITY FUEL	ACOUSTIC LEVEL-DB	STIFFNESS REQUIREMENTS EI-VERT	EI-SIDE	GJ
1	272.0	0.0	1.0	-0.4	0.0000	0.0	0.0	0.0	0.0
2	349.0	0.0	0.0	-0.4	0.0000	0.0	0.0	0.0	0.0
3	353.0	0.0	0.0	-0.4	0.0000	0.0	0.0	0.0	0.0
4	482.0	0.0	1.0	-0.4	0.0000	0.0	0.0	0.0	0.0
5	600.0	0.0	0.0	-0.4	0.0000	0.0	0.0	0.0	0.0
6	732.0	0.0	0.0	-0.4	0.0000	0.0	0.0	0.0	0.0
7	736.0	0.0	0.0	-0.4	0.0000	0.0	0.0	0.0	0.0
8	840.0	0.0	0.0	-0.4	0.0000	0.0	0.0	0.0	0.0
9	956.0	0.0	0.0	-0.4	0.0000	0.0	0.0	0.0	0.0
10	960.0	0.0	0.0	-0.4	0.0000	0.0	0.0	0.0	0.0
11	996.0	0.0	0.0	-0.4	0.0000	0.0	0.0	0.0	0.0
12	1000.0	0.0	0.0	-0.4	0.0000	0.0	0.0	0.0	0.0
13	1142.0	0.0	0.0	-0.4	0.0000	0.0	0.0	0.0	0.0
14	292.0	0.0	0.0	-0.4	0.0000	0.0	0.0	0.0	0.0
15	1396.0	0.0	1.0	-0.4	0.0000	0.0	0.0	0.0	0.0
16	1639.0	0.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
17	1643.0	0.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
18	1726.0	0.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0
19	1730.0	0.0	0.0	0.0	0.0000	0.0	0.0	0.0	0.0

*** SECTION DATA - SHELL ELEMENTS *** ** SPRINT - IP(80) *

CUT	STATION	CRITICAL COND. DOWN	CRITICAL COND. UP	LONG./STRING. DEPTH/SPACE	LONG./STRING. NUMBER	AREA - LONGERON/STRINGER UPPER	AREA - LONGERON/STRINGER SIDE	AREA - LONGERON/STRINGER LOWER	LONG STIFF	AREA - LONG C/ UPPER	AREA - LONG C/ LOWE
1	272.0	9	7	6.00	44.5	.145	.145	.145	.145	0.000	.14
2	349.0	4	7	6.00	78.3	.145	.145	.145	.145	0.000	.14
3	353.0	4	7	6.00	79.0	.145	.145	.145	.145	0.000	.14
4	452.0	4	16	6.00	89.0	.145	.145	.145	.145	0.000	0.00
5	600.0	4	16	6.00	89.0	.145	.145	.145	.145	0.000	0.00
6	732.0	4	16	6.00	89.0	.145	.145	.145	.145	1.888	0.00
7	736.0	4	16	6.00	89.0	.145	.234	.145	.145	1.904	0.00
8	846.0	2	3	6.00	89.0	.302	.293	.304	.145	6.554	0.00
9	956.0	2	3	6.00	89.0	.654	.247	.596	.145	11.831	0.00
10	960.0	2	3	6.00	89.0	.637	.311	.583	.145	10.599	0.00
11	996.0	2	3	6.00	89.0	.498	.314	.527	.145	4.316	0.00
12	1000.0	2	3	6.00	89.0	.518	.145	.500	.145	4.211	0.00
13	1142.0	2	3	6.00	89.0	.145	.145	.373	.145	0.000	0.00
14	1292.0	2	3	6.00	88.1	.145	.145	.298	.145	0.000	5.33
15	1398.0	2	3	6.00	83.1	.145	.145	.255	.145	0.000	4.23
16	1639.0	2	3	6.00	47.4	.145	.145	.314	.145	0.000	3.04
17	1663.0	2	3	6.00	44.7	.145	.211	.298	.145	0.000	2.83
18	1726.0	2	3	6.00	29.4	.145	.356	.145	.145	0.000	.14
19	1730.0	7	9	6.00	25.3	.145	.145	.145	.145	0.000	.14

*** SECTION DATA - SHELL ELEMENTS *** ** SPRINT - IP(80) *

CUT	STATION	CRIT. COND.	FRAME SPACING	BASIC THICKNESS UPPER	BASIC THICKNESS SIDE	BASIC THICKNESS LOWER	LAND REQUIREMENTS UPPER	LAND REQUIREMENTS SIDE	LAND REQUIREMENTS LOWER	BASIC FLUTTER	TORSION FORWARD	TORSION AFT
1	272.0	4	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
2	349.0	4	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
3	353.0	16	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
4	452.0	16	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
5	600.0	4	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
6	732.0	4	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
7	736.0	2	20.00	.0500	.0638	.0500	.0500	.0638	.0500	0.0000	0.0000	0.0000
8	846.0	2	20.00	.0500	.0635	.0500	.0500	.0635	.0500	0.0000	0.0000	0.0000
9	956.0	2	20.00	.0500	.0570	.0500	.0500	.0570	.0500	0.0000	0.0000	0.0000
10	960.0	16	20.00	.0500	.0777	.0500	.0500	.0777	.0500	0.0000	0.0000	0.0000
11	996.0	16	20.00	.0500	.0798	.0500	.0500	.0798	.0500	0.0000	0.0000	0.0000
12	1000.0	2	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
13	1142.0	2	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
14	1292.0	2	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
15	1398.0	2	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
16	1639.0	2	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
17	1663.0	2	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000
18	1726.0	2	20.00	.0500	.0717	.0500	.0500	.0717	.0500	0.0000	0.0000	0.0000
19	1730.0	7	20.00	.0500	.0500	.0500	.0500	.0500	.0500	0.0000	0.0000	0.0000

*** MISCELLANEOUS SHELL DATA *** ** SPRINT - IP(80) *

YOUNGS MODULUS - COVER 10700000.0
LONGERONS 10500000.0

CUT	STATION	PANEL SIZE UPPER	PANEL SIZE LOWER	CUTOUT DATA UPPER	CUTOUT DATA LOWER	APPARENT CUTOUT UPPER	APPARENT CUTOUT LOWER	BENDING STIFFNESS VERTICAL	BENDING STIFFNESS SIDE
1	272.00	66.68	66.68	0.00	-56.00	0.00	56.00	.9506187E+11	.1194099E+
2	349.00	117.65	117.65	0.00	56.00	0.00	56.00	.5691325E+12	.6726411E+
3	353.00	118.52	118.52	0.00	0.00	0.00	52.00	.5907377E+12	.6344165E+
4	452.00	133.50	133.50	0.00	0.00	0.00	0.00	.9115351E+12	.9005911E+
5	600.00	133.50	133.50	0.00	0.00	0.00	0.00	.9115351E+12	.9005911E+
6	732.00	133.50	133.50	0.00	0.00	120.50	0.00	.4589789E+12	.9952903E+
7	736.00	133.50	133.50	-1.00	0.00	133.50	0.00	.4910563E+12	.1274433E+
8	846.00	133.50	133.50	1.00	0.00	133.50	0.00	.1060994E+13	.1460420E+
9	956.00	133.50	133.50	1.00	0.00	133.50	0.00	.1870114E+13	.2222745E+
10	960.00	133.50	133.50	0.00	0.00	120.50	0.00	.1876932E+13	.2441164E+
11	996.00	133.50	133.50	0.00	0.00	93.50	0.00	.1727346E+13	.1909129E+
12	1000.00	133.50	133.50	0.00	0.00	89.50	0.00	.1711297E+13	.1192803E+
13	1142.00	133.50	133.50	0.00	0.00	0.00	0.00	.1224465E+13	.9682232E+
14	1292.00	132.17	132.12	0.00	-1.00	0.00	132.12	.1085416E+13	.1237227E+
15	1398.00	124.65	124.65	0.00	1.00	0.00	124.65	.8623056E+12	.9981113E+
16	1639.00	71.16	71.16	0.00	1.00	0.00	71.16	.1734526E+12	.1991682E+
17	1663.00	70.02	70.02	0.00	1.00	0.00	70.02	.1677317E+12	.2174008E+
18	1726.00	39.65	39.65	0.00	1.00	0.00	39.65	.2404150E+11	.4886735E+
19	1730.00	37.93	37.93	0.00	1.00	0.00	37.93	.1728719E+11	.1982704E+

*** SEGMENT DATA - GEOMETRY AND UNIT INERTIAS *** ** SPRINT - IP(80) *

SEG	XMAX	DELX	AREA	VOLUME	IOXX	IOYY	IOZZ
1	258.1	41.6	7925.8	7H494.6	540.6	335.2	335.2
2	310.5	77.0	30752.6	852016.2	1712.0	1350.1	1350.1
3	351.0	6.0	1914.7	70H94.8	2811.3	1407.0	1407.0
4	402.5	99.0	50130.4	2803H03.7	3219.4	2423.0	2423.0
5	526.0	148.0	79032.0	3358415.0	3611.5	3031.1	3031.1
6	666.0	132.0	70648.0	2995343.1	3611.5	3257.8	3257.8
7	736.0	4.0	2134.0	90748.0	3611.5	1807.1	1807.1
8	791.0	110.0	58740.0	2496119.2	3611.5	2814.1	2814.1
9	901.0	110.0	58740.0	2496119.2	3611.5	2814.1	2814.1
10	958.0	4.0	2134.0	90748.0	3611.5	1807.1	1807.1
11	978.0	36.0	19274.0	816911.8	3611.5	1913.8	1913.8
12	998.0	4.0	2134.0	90748.0	3611.5	1807.1	1807.1
13	1071.0	142.0	75828.0	3222843.0	3611.5	3486.1	3486.1
14	1217.0	150.0	79847.0	3368733.9	3504.4	3458.2	3458.2
15	1365.0	104.0	54480.0	2295149.0	3330.0	2601.3	2601.3
16	1518.5	241.0	95317.0	3814428.4	1934.6	5808.4	5808.4
17	1641.0	4.0	1147.8	24378.9	1004.0	503.4	503.4
18	1684.5	83.0	18893.3	425909.4	408.0	876.6	876.6
19	1728.0	4.0	963.6	7446.2	302.0	152.4	152.4
20	1759.3	87.9	6916.4	536A1.3	174.9	377.2	377.2
	TOTAL		716077.7	27AA3649.6			

*** SHELL GEOMETRY - SECTION DATA *** ** SPRINT - IP(80) *

CUT	STA.	ZU	RU	RL	RS	RCU	RCL	RCS	PERI.	DU	RU	RD
1	272.0	200.0	66.7	66.7	66.7	42.5	42.5	42.5	266.7	.0	.0	42.4
2	349.0	200.0	117.4	117.4	117.4	74.9	74.9	74.9	469.8	.1	.1	74.7
3	353.0	200.0	118.5	118.5	118.5	75.5	75.5	75.5	474.1	.1	.1	75.4
4	452.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
5	600.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
6	732.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
7	736.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
8	846.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
9	956.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
10	960.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
11	996.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
12	1000.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
13	1102.0	200.0	133.5	133.5	133.5	85.0	85.0	85.0	534.0	0.0	0.0	85.0
14	1292.0	223.0	132.1	132.1	132.1	84.2	84.2	84.2	528.5	.1	.1	84.0
15	1398.0	239.7	124.6	124.6	124.6	79.4	79.4	79.4	498.6	.0	.0	79.3
16	1639.0	259.4	71.2	71.2	71.2	45.4	45.4	45.4	286.8	.1	.1	45.2
17	1643.0	259.7	70.0	70.0	70.0	44.7	44.7	44.7	280.1	.1	.1	44.5
18	1726.0	264.7	39.7	39.7	39.7	25.3	25.3	25.3	158.8	.1	.1	25.2
19	1730.0	264.9	37.9	37.9	37.9	24.2	24.2	24.2	151.7	.1	.1	24.1
20	1817.9	270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*** SHELL GEOMETRY - SECTION DATA *** ** SPRINT - IP(80) *

CUT	STATION	CROSS SECTION AREA-TORQUE TOTAL	NET FWD	NET AFT	PERIMETER FORWARD	PERIMETER AFT	PERIMETER-DECK FORWARD	PERIMETER-DECK AFT	DEPTH-EFFECT. FORWARD	DEPTH-EFFECT. AFT	WIDTH-EFFECT. FORWARD	WIDTH-EFFECT. AFT
1	272.0	5660.7	5660.7	2830.3	266.7	218.2	84.9	84.9	42.4	42.4	84.9	84.9
2	349.0	17563.7	17561.8	17563.7	384.4	469.8	149.5	149.5	74.7	74.7	149.5	149.5
3	353.0	17884.2	17884.2	17884.2	474.1	474.1	150.9	150.9	75.4	75.4	150.9	150.9
4	452.0	22692.0	22692.0	22692.0	534.0	534.0	170.0	170.0	85.0	85.0	170.0	170.0
5	600.0	22692.0	22692.0	22692.0	534.0	534.0	0.0	0.0	170.0	170.0	170.0	170.0
6	732.0	22692.0	22692.0	22692.0	534.0	534.0	0.0	0.0	170.0	170.0	170.0	170.0
7	736.0	22692.0	22692.0	19992.5	534.0	515.2	170.0	129.6	140.0	140.0	170.0	170.0
8	846.0	22692.0	19992.5	19992.5	514.2	514.2	129.6	129.6	140.0	140.0	170.0	170.0
9	956.0	22692.0	19992.5	22692.0	514.2	534.0	129.6	0.0	140.0	170.0	170.0	170.0
10	960.0	22692.0	22692.0	22692.0	534.0	534.0	0.0	0.0	170.0	170.0	170.0	170.0
11	996.0	22692.0	22692.0	22692.0	534.0	534.0	0.0	0.0	170.0	170.0	170.0	170.0
12	1000.0	22692.0	22692.0	22692.0	534.0	534.0	0.0	0.0	170.0	170.0	170.0	170.0
13	1102.0	22692.0	22692.0	22692.0	534.0	534.0	0.0	0.0	170.0	170.0	170.0	170.0
14	1292.0	22225.3	22225.3	6024.3	528.5	357.3	168.2	154.4	115.0	53.1	168.2	154.4
15	1398.0	19783.1	7513.6	7513.6	374.8	374.8	155.8	155.8	84.3	84.3	155.8	155.8
16	1639.0	6447.2	3665.7	3665.7	242.2	242.2	90.0	90.0	50.2	50.2	90.6	90.6
17	1643.0	6242.8	3549.4	3549.4	238.3	238.3	88.6	88.6	49.4	49.4	89.1	89.1
18	1726.0	2091.9	1352.7	1352.7	142.1	142.1	48.5	48.5	32.3	32.3	50.4	50.4
19	1730.0	1831.4	1237.5	1237.5	135.9	135.9	44.4	44.4	30.9	30.9	48.3	48.3

*** SHELL COMPONENT WEIGHTS ***

** SPRINT - IP(A0) *

SEG	STA	LENGTH	COVER ELEMENTS UPPER	SIDE	LOWER	TOTAL	MINOR FRAMES	JOINTS SPLICES	LONGITUDINAL PARTITIONS
1	258.1	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	310.5	77.0	43.7	87.3	17.1	148.1	63.0	18.2	42.2
3	351.0	4.0	2.9	5.8	2.9	11.6	4.2	1.4	3.2
4	402.5	99.0	76.9	153.7	76.9	307.4	111.0	37.5	83.7
5	526.0	148.0	121.7	243.5	121.7	486.9	175.7	59.2	132.5
6	666.0	132.0	108.6	217.1	108.6	434.3	156.7	55.3	118.2
7	734.0	4.0	3.3	6.8	3.3	13.4	6.7	1.9	4.0
8	791.0	110.0	0.0	194.2	90.5	284.7	239.3	49.8	104.8
9	901.0	110.0	0.0	200.1	90.5	290.6	243.7	67.2	106.9
10	958.0	4.0	3.3	8.9	3.3	15.4	9.7	3.8	5.0
11	978.0	36.0	29.6	93.2	29.6	152.5	92.2	32.0	48.9
12	998.0	4.0	3.3	8.5	3.3	15.1	7.5	2.9	4.5
13	1071.0	142.0	116.8	233.6	116.8	467.2	168.6	79.1	127.2
14	1217.0	150.0	122.7	245.5	122.7	490.9	177.2	74.2	133.6
15	1345.0	106.0	83.8	167.7	0.0	251.5	121.0	40.8	74.5
16	1518.5	241.0	145.4	290.7	0.0	436.1	209.9	70.8	129.2
17	1641.0	4.0	1.7	3.5	0.0	5.2	3.6	.9	1.8
18	1684.5	83.0	28.0	64.9	0.0	92.9	89.5	15.3	36.5
19	1728.0	4.0	1.0	2.3	0.0	3.3	2.7	.5	1.2
20	1759.3	87.9	10.6	21.3	10.6	42.6	15.4	5.4	11.6
	TOTAL		903.3	2248.7	797.8	3949.8	1897.5	616.3	1169.5

*** SHELL COMPONENT WEIGHTS ***
LONGITUDINAL MEMBERS

** SPRINT - IP(80) *

SEG	STA	LENGTH	UPPER	SIDE	LOWER	CUTOUT UPPER	CUTOUT LOWER	MISC	TOTAL
1	258.1	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	310.5	77.0	20.6	41.1	8.1	0.0	2.7	0.0	72.4
3	351.0	4.0	1.4	2.7	1.4	0.0	.1	0.0	5.6
4	402.5	99.0	36.2	72.3	36.2	0.0	1.7	0.0	146.4
5	526.0	148.0	57.3	114.6	57.3	0.0	0.0	0.0	229.2
6	666.0	132.0	51.1	102.2	51.1	29.9	0.0	0.0	234.3
7	734.0	4.0	1.5	4.0	1.5	1.8	0.0	0.0	9.0
8	791.0	110.0	0.0	137.1	65.9	111.6	0.0	0.0	314.7
9	901.0	110.0	0.0	140.8	132.1	242.7	0.0	0.0	515.6
10	958.0	4.0	6.9	6.0	6.3	10.8	0.0	0.0	29.9
11	978.0	36.0	54.2	60.1	53.4	64.4	0.0	0.0	232.1
12	998.0	4.0	5.4	4.9	5.8	4.1	0.0	0.0	20.2
13	1071.0	142.0	125.9	109.9	174.9	71.7	0.0	0.0	484.5
14	1217.0	150.0	57.8	115.5	133.5	0.0	96.1	0.0	402.8
15	1345.0	106.0	39.5	78.9	0.0	0.0	121.7	0.0	240.1
16	1518.5	241.0	68.4	136.8	0.0	0.0	211.1	0.0	416.3
17	1641.0	4.0	.8	2.0	0.0	0.0	2.9	0.0	5.7
18	1684.5	83.0	13.2	48.0	0.0	0.0	30.3	0.0	91.5
19	1728.0	4.0	.4	1.6	0.0	0.0	.1	0.0	2.2
20	1759.3	87.9	5.0	10.0	5.0	0.0	3.1	0.0	23.1
	TOTAL		545.5	1188.8	734.4	537.0	469.7	0.0	3475.5

*** BODY GROUP *** ** SPRINT **

BULKHEADS AND FRAMES		
	351.[illegible]	161.4
	994.00	1530.9
	1056.00	100.4
	734.00	321.4
	956.00	727.2
	1641.00	165.7
	1721.00	134.0
	1314.47	402.1
	272.00	34.8
	452.00	427.4
	1396.00	114.9
MINOR FRAMES		1404.1
JOINTS, SPLICES AND FASTENERS		617.9
COVERING - UPPER BETWEEN LONGERONS		903.5
- SIDE BETWEEN LONGERONS		2257.0
- LOWER BETWEEN LONGERONS		797.9
COVERING LONGITUDINAL STIFFENERS - UPPER BETW. LONG.		647.6
- SIDE BETW. LONG.		1194.1
- LOWER BETW. LONG.		738.3
LONGERONS - UPPER		535.5
- LOWER		470.5
ENGINE DRAG		0.0
LONGITUDINAL PARTITIONS - (STRUCTURAL)		1172.5
FLOORING AND SUPPORTS - (BASIC STRUCTURE)		3421.1
FITTINGS		179.6
TOTAL - BASIC STRUCTURE		16880.6

*** BODY GROUP *** ** SPRINT **
SECONDARY STRUCTURE

ENCLOSURES (EXCLUDING TURRET NCLOSURES)		
CANOPY - PILOT	0.0	
WINDSHIELD (EXCLUDING BULLET PROTECTION)	250.0	
WINDOWS AND PORTS INCL. FRAMES	300.5	
WINDOWS AND PORTS - CABIN	6.3	
FLOORING AND SUPPORTS (SECONDARY STRUCTURE)	404.4	
STAIRWAYS AND LADDERS (FIXED)	32.4	
NOSE RADOME	95.3	
SPEED BRAKES - STRUCTURE AND SUPPORTS	0.0	
TOTAL SECONDARY STRUCTURE		1089.0

*** BODY GROUP ***
SECONDARY STRUCTURE
(DOORS, PANELS AND MISCELLANEOUS)

** SPRINT **

	AREA-SQ.FT.		
DOORS AND FRAMES			
- MAIN GEAR	162.0	863.4	
- NOSE GEAR	32.9	164.5	
- ART CARGO	565.3	1117.4	
- ART RAMP	106.5	1071.4	
- PRESSURE	69.7	344.9	
- DUMP	0.0	0.0	
- GUN		0.0	
- AMMO		0.0	
- ESCAPE	24.2	471.9	
- ESCAPE	18.5	185.0	
- PARATROOP	42.4	466.4	
- ENTRANCE	12.2	122.0	
- ACCESS		113.2	
PANELS (NON STRUCTURAL)			
- SPOILER DEFLECTOR		20.0	
- MAIN GEAR POD	700.0	1191.4	
WALKWAYS, STEPS, TRIPS		166.2	
ANTI-SKID PROTECTION		58.9	
FAIRING AND FILLETS		0.0	
EXTERIOR FINISH		0.0	
INTERIOR FINISH		248.7	
TOTAL SECONDARY STRUCTURE (DOORS, PANELS, MISC.)			6697.8
TOTAL - BASIC STRUCTURE			18880.8
TOTAL SECONDARY STRUCTURE			1089.0
TOTAL - BODY GROUP			26867.5

*** BODY GROUP ***
BALANCE DATA

** SPRINT **

	WEIGHT	HORIZ. ARM
BULKHEADS AND FRAMES	4141.18	974.42
JOINTS, SPLICES AND FASTENERS	617.80	978.43
MINOR FRAMES	1904.11	973.19
COVERING - UPPER	903.53	992.62
SIDE	2257.02	969.34
LOWER	797.92	824.66
LONGERONS AND LONGITUDINAL STIFFENERS	547.61	1000.50
	1194.09	971.59
	738.26	925.39
	535.51	901.75
	470.45	1409.84
ENGINE DRAG	0.0	0.0
LONGITUDINAL PARTITIONS	1172.51	955.59
FLOORING AND SUPPORTS	3421.06	872.00
FITTINGS	179.61	1259.41
TOTAL BASIC STRUCTURE	18880.77	958.81
SECONDARY STRUCTURE		
	0.0	0.0
	0.0	0.0
	250.00	309.40
	300.50	309.40
	6.30	1020.00
	404.43	385.30
	32.45	442.80
	95.30	319.00
	0.0	0.0
	0.0	0.0
	0.0	0.0
	0.0	0.0
TOTAL SECONDARY STRUCTURE	1088.98	346.51